

# Appendix A West Erregulla Project; Flora and Fauna Vegetation Assessment

**WARREGO ENERGY LIMITED**

**WEST ERREGULLA PROJECT**

**FLORA AND VEGETATION ASSESSMENT**



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Cover Photo: Clockwise from left: *Thelymitra stellata* (Threatened Flora (Declared Rare Flora – Extant)), *Paracaleana dixonii* (Threatened Flora (Declared Rare Flora – Extant)), *Pterostylis sargentii* and *Thelymitra benthamiana*, orchid species growing in the West Erregulla Study Area, 2012 (Photo: Woodman Environmental)

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## EXECUTIVE SUMMARY

Warrego Energy Limited (Warrego) is proposing to undertake petroleum exploration at its West Erregulla Project (the Project) in Western Australia. This includes conducting a 3D seismic survey within Exploration Permit (EP) 469 and part of EP 419. The seismic survey will be used to collect data pertaining to the commercial potential of a tight-gas reserve. The Project is located approximately 230 km north-east of Perth, and 50 km south-east of Dongara, in the Northern Sandplains region of Western Australia. It includes a large block of vegetation on Vacant Crown Land (VCL), as well as a number of smaller areas of remnant vegetation and cleared paddocks on private property, and on road reserves.

As part of the Environmental Impact Assessment (EIA) process for the Project (in line with the *Environmental Protection Act* 1986), Warrego initially commissioned Woodman Environmental Consulting Pty Ltd (Woodman Environmental) in 2011 to conduct a desktop review of the flora and vegetation of the West Erregulla Study area. Woodman Environmental were subsequently commissioned in 2011 to conduct a flora and vegetation survey of the Study area, with further survey work undertaken in 2012 to map vegetation on private property, as well as undertake survey for conservation significant flora taxa. This report presents an assessment of flora and vegetation over the Study Area.

An initial reconnaissance visit to the Study area was conducted on the 15<sup>th</sup> September 2011, to identify vehicular access within the Study area, as well as recording notes on preliminary vegetation boundaries and other significant features (wetlands, unusual vegetation types). A detailed survey was conducted over three visits in Spring 2011: from the 26<sup>th</sup> – 30<sup>th</sup> September, from the 24<sup>th</sup> – 27<sup>th</sup> October, and from the 20<sup>th</sup> – 26<sup>th</sup> November. These visits covered the length of the Spring season, during which most taxa in the Northern Sandplains Region are known to flower. A series of 90 permanent flora survey quadrats were established within remnant vegetation located on VCL within the Study area during this time. All quadrats covered an area of 100 m<sup>2</sup>, measuring 10 m by 10 m. Further survey was undertaken over two visits in 2012: from 10<sup>th</sup> – 13<sup>th</sup> September and 2<sup>nd</sup> – 5<sup>th</sup> October. 29 quadrats and 10 detailed recording sites were established in 2012, in areas that were inaccessible during the 2011 surveys. Targetted searching for conservation significant flora was also undertaken during the 2012 surveys.

Quadrat data was statistically analysed to determine Vegetation Types (VTs) present in the Study area.

A total of 535 discrete vascular flora taxa and one known known hybrid were recorded within the Study area in 2011 and 2012. These taxa represent 64 families and 196 genera. A total of 30 confirmed and two possible conservation significant flora taxa are known in the Study area. This total includes:

- 3 confirmed taxa listed as T (DRF) (the orchids *Thelymitra stellata* and *Paracaleana dixonii*, and the mallee *Eucalyptus crispata*)
- 1 T (DRF) taxon with historical data recorded only (*Eucalyptus leprophloia*) (not re-recorded in 2011 or 2012)

- 23 confirmed taxa listed as Priority flora
- 2 historical locations of Priority flora (not re-recorded in 2011 or 2012)
- 1 possible location of a Priority flora taxon recorded in 2012 (?*Styloidium carnosum* subsp. Narrow leaves (J.A. Wege 490))
- 1 historical location of a possible Priority flora taxon (*Banksia fraseri* ?var. *crebra* P3) (not re-recorded in 2011 or 2012)
- 1 known hybrid Priority flora (*Eucalyptus macrocarpa* x *pyriformis* (P3))

The populations of three of the four taxa listed as T (DRF) and known from the Study area were considered to be of high significance to the overall conservation significance of each taxon. One taxon listed as T (DRF) with historical records known from the Study area, *Eucalyptus leprophloia*, was not recorded during this survey and hence was not ranked in terms of conservation significance. The populations of a number of Priority flora taxa were also considered to be of high significance to the overall conservation significance of each taxon.

A total of 22 introduced flora taxa were recorded in the Study area. One of these taxa, *Echium plantagineum* (Salvation Jane; Patersons Curse) is listed as a Declared Pest in Western Australia under the *Biosecurity and Agriculture Management Act 2007* (BAM Act) (Department of Agriculture and Food 2013), however it is not listed as a Weed of National Significance (WoNS).

Manual dissection of the floristic classification of the 119 quadrats defined 14 vegetation types (VTs), three of which were split further into two sub-types each (total 17 VTs). These VTs comprise four super-groups. The split between the four super-groups is based primarily on soil types, and usually associated topographical location, within the Study area, with distinct differences in species composition between the super-groups.

Super-group 1 is comprised of VTs 1-6, with VT 1 divided into two sub-types. It consists of vegetation on clay or occasionally sandy soils generally characterised by the presence of *Eucalyptus accedens*, however always with a mid stratum dominated by *Melaleuca* spp. Super-group 2 is comprised of VTs 7 to 9, with VT 7 divided into two sub-types. It consists of shrublands, occasionally with a mallee woodland stratum, on upland areas associated with laterite, including breakaways, rises and slopes. Super-group 3 is comprised of VTs 10 - 12. It consists of shrublands on slopes and flats associated with areas of yellow to grey sand. Super-group 4 is comprised of VTs 13 and 14, VT 13 divided into two sub-types. It consists of vegetation on slopes and flats associated with areas of grey sand, with a low woodland of *Eucalyptus todtiana* usually (but not always) present.

In general, most of the vegetation types in the UCL portion of the Survey area were considered to be in pristine condition, with no obvious signs of disturbance. However, several quadrats located under *Eucalyptus accedens* were affected by weeds, present at relatively low levels. Areas of remnant bushland on private property were generally in worse condition, with condition rankings from '2' (Excellent) through to '5' (Poor).

No VTs mapped in the Study area are equivalent to any state-listed Threatened Ecological Communities (TECs) or Priority Ecological Communities (PECs), or any

nationally-listed threatened ecological communities, although two TECs are known within the vicinity of the Study area ('Assemblages of organic mound springs of the Three Springs area' and 'Ferricrete floristic community (Rocky Springs type)'), neither were recorded in the Study area. Of the VTs mapped within the Study area, 16 of the 17 are considered to be of high local conservation significance, primarily because of their limited extent in the Study area (less than 1 % of the total Study area) and their occurrence on landforms that were uncommon and restricted in the Study area. However, several VTs, despite being widespread and common in the Study area, are habitat for taxa listed as T (DRF), or restricted Priority flora or undescribed taxa, and hence were also considered to be of high local conservation significance. It is also highly likely that several VTs described within the Study area, namely VTs 5, 8, 9, 11 and 12, are of some regional significance, as they do not appear to have been mapped previously in the region, however without further statistical analysis of regional datasets, this cannot be confirmed.

The following recommendations have been made with regard to potential disturbance associated with the West Erregulla Project:

- Known locations of all Threatened (DRF) flora taxa within the Study area should be avoided by works planned to be undertaken in the area if possible;
- Prior to works being undertaken within the Study area, a Permit to Take should be applied for with regard to incidental taking of *Paracaleana dixonii* (T (DRF)) and *Thelymitra stellata* (T (DRF)), to enable accidental clearing of individuals which have so far not been recorded within the Study area;
- Further material of *Eucalyptus ?crispata* (T (DRF)), *Eucalyptus ?abditata* (P2), *Banksia fraseri ?var. crebra*, *Guichenotia impudica* (both P3), *Cryptandra intermedia* (atypical variant), *Eucalyptus* sp. (unidentified 2), *Leucopogon* sp. and *Acacia ?idiomorpha* (all potentially undescribed) should be collected to determine both taxonomic and conservation status, prior to any ground disturbing activities taking place;
- A *Phytophthora cinnamomi* and weed hygiene management plan should be developed prior to any works being undertaken, to prevent the introduction and/or spread of disease or weeds in the Study area. A weed monitoring programme should also be considered, to ensure that any new infestations, particularly in disturbance areas such as seismic lines, are identified and can be controlled or eradicated;
- The locations of the locally significant VTs (1a – 13a, 14) and potentially regionally significant VTs (5, 8, 9, 11, 12) be considered when planning the location of any future disturbance, to minimise impacts to these VTs as much as is practical;
- An assessment of impacts to flora and vegetation should be conducted when final disturbance footprints are available.

## 1. INTRODUCTION

### 1.1 PROJECT AND STUDY DESCRIPTION

Warrego Energy Limited (Warrego) is a private development and production company established to invest in and develop a global portfolio of onshore tight gas assets through the application of innovative drilling and production techniques and technologies. Warrego's initial investment is in Western Australia, where the company is progressing development of the West Erregulla concession in the North Perth Basin.

Warrego is proposing to undertake petroleum exploration at its West Erregulla Project (the Project) in Western Australia. This includes conducting a 3D seismic survey within Exploration Permit (EP) 469 and part of EP 419. The seismic survey will be used to collect data pertaining to the commercial potential of a tight-gas reserve.

The Project is located approximately 230 km north-east of Perth, and 50 km south-east of Dongara, in the Northern Sandplains region of Western Australia (Figure 1). It is located approximately 20 km from both the Dampier-Bunbury and Parmelia pipelines, through which it is proposed that the gas will be transported to market. Gas was first drilled in the area (at West Erregulla-1 well site) by Barrack Energy in 1990.

As part of the Environmental Impact Assessment (EIA) process for the Project (in line with the *Environmental Protection Act* 1986), Warrego initially commissioned Woodman Environmental Consulting Pty Ltd (Woodman Environmental) in 2011 to conduct a desktop review of the flora and vegetation of the Project area. The purpose of the desktop review is to review known information relevant to the Project area through all sources of literature available. Woodman Environmental were subsequently commissioned in 2011 to conduct a flora and vegetation survey of the then Project area. Following changes to the dimensions of the Project area subsequent to the flora and vegetation survey in 2011, Woodman Environmental were commissioned in 2012 to conduct further survey of areas of the new (current) Project area that extended outside the original Project area, and conduct targeted searching for conservation significant flora in the current Project area. The current Project area is shown on Figure 1.

The desktop review and flora and vegetation survey represent the components of a Level 2 survey as defined by the Environmental Protection Authority's (EPA) Guidance Statement No. 51 (EPA 2004). A Level 2 survey with regard to the Project is defined as a background research/desktop study and reconnaissance survey, followed by a detailed survey of the study area (EPA 2004). This level of survey was determined to be the appropriate level of survey for the Project, after review of Table 2 of Guidance Statement No. 51 (EPA 2004), where the Bioregion Group is defined as Group 1 (Geraldton Sandplains), and the nature of the impact is considered to be 'Moderate to High'. A detailed survey was considered appropriate as opposed to a comprehensive survey, as there is relatively detailed information available regarding the flora and vegetation of the Northern Sandplains region (see Section 2).

This report presents both components of the Level 2 survey, with the results of the background research/desktop study summarised in Section 2, and the results of the



detailed survey of the Project area, including survey conducted in both 2011 and 2012 presented in Section 4.

## 1.2 PROJECT AREA AND STUDY AREA

The current Project area consists of a polygon that covers an area of 9,543 ha, and measures approximately 12.5 km from north to south at its longest point, and approximately 10 km from east to west at its widest point (Figure 1). The majority of the current Project area consists of remnant vegetation on Vacant Crown Land (VCL), with the remaining sections occupying paddocks and small areas of remnant vegetation on private property, and Shire roads and road reserves. The Project area is located within the Shire of Three Springs and the Shire of Mingenew. The nearest town centre is Dongara, located approximately 50 km to the north-west of the centre of the Project area. The Project area is intersected by Tomkins Road, Natta Road, Carey Road and Sand Plain Creek.

As previously mentioned, the current Project area differs from the original Project area provided to Woodman Environmental in 2011 for the flora and vegetation survey in 2011, extending outside the original Project area boundary in several areas, while excising several other areas of the original Project area. For the purposes of this assessment, it was deemed desirable to present all of the data collected during the 2011 survey in this report, including from the areas excised by the current Project area, as this data would provide contextual information when discussing the distributions of conservation significant flora and vegetation. Therefore, a Study area was created, using a combination of the original and current Project area boundaries, in order to present all data collected during the 2011 survey. The Study Area is also shown on Figure 1.

For the purposes of consistent terminology in this report, Study area will hereafter be used.

## 1.3 AIMS

The aim of this study was to determine the flora and vegetation values of the Study area. The overall objectives of the study were to:

- Compile an inventory of vascular plant taxa present within the Study area, and map conservation significant and introduced flora taxa; and
- Define and map Vegetation Types (VTs) and other communities present within the Study area

The tasks undertaken to meet this aim were:

- Review all existing literature relating to flora, vegetation and other environmental factors relevant to the Study area, including relevant state and federal databases;
- Establish flora survey quadrats throughout all discernible plant communities within all areas of remnant vegetation in the Study area;
- Undertake statistical analysis to define VTs within the Study area;

- Map the distribution of VTs within the Study area using a combination of aerial photograph interpretation and field observation;
- Map and discuss the condition of the vegetation of the Study area;
- Conduct targeted searches for flora species, including Threatened, Priority Flora and introduced taxa that may be present within the Study area; and
- Provide a report and map detailing VTs, conservation significant flora, introduced flora and condition of remnant vegetation within the Study area.

## 2. BACKGROUND

### 2.1 CLIMATE

The climate of the region within which the Study area occurs is classified as Mediterranean, with dry warm summers, and cool wet winters. There are 7 – 8 dry months per year (where average precipitation does not exceed evaporation) (Beard 1990). The majority of rainfall is produced by cold fronts, which frequently affect the south-west corner of Western Australia during the winter months.

Figure 2 displays the mean maximum and minimum temperatures (°C) and mean rainfall (mm) experienced at Eneabba, located approximately 45 km south of the Study area. The Eneabba area experiences an average of 495.6 mm of rainfall per year, predominantly in the winter months of May - August (averaged over the years 1964 – 2012) (Bureau of Meteorology 2012a). The highest mean maximum temperature of Eneabba is experienced in January (summer), with the lowest mean minimum temperature experienced in July-August (winter) (Figure 2).

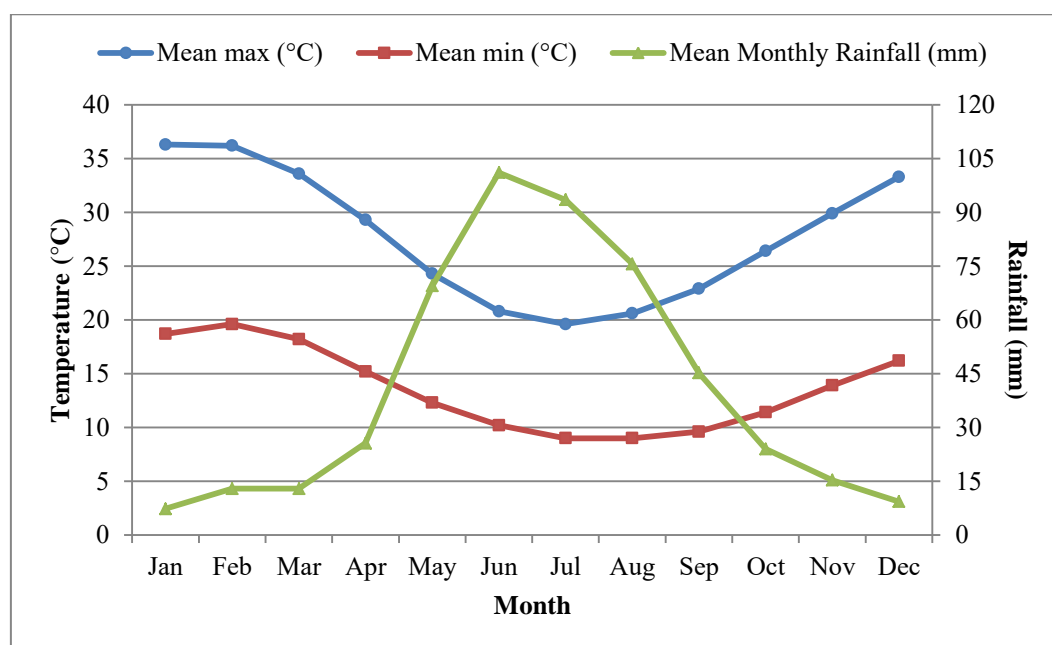


Figure 2: Average Maximum and Minimum Temperatures (°Celsius) and Average Rainfall (mm) for Eneabba (Bureau of Meteorology 2012a)

### 2.2 LANDFORMS, GEOLOGY AND SOILS

The Study area is located within the Geraldton Sandplains Interim Biogeographic Regionalisation for Australia (IBRA) Bioregion within Western Australia

(Commonwealth of Australia 2012). The Geraldton Sandplains bioregion is situated on the sandy earths of an extensive, undulating, lateritic sandplain mantling Permian to Cretaceous strata (Desmond & Chant 2001). The Study area is located more specifically within the Geraldton Sandplains 3 (GS3): Lesueur Sandplain subregion (Commonwealth of Australia 2012). The GS3 subregion more specifically comprises coastal Aeolian and limestones, and Jurassic siltstones and sandstones (often heavily lateritised), of the central Perth Basin (Desmond & Chant 2001).

The Study area lies in the Northern Sandplains Region (Irwin Botanical District) as described by Beard (1976; 1990). This region is characterised by extensive lateritic sandplains, locally dissected especially near the coast, and almost entirely underlain by sedimentary rocks of a mostly siliceous nature. The sedimentary rocks form a series of plateaux, including the Dandaragan Plateau, on which the Study area is located. While dissected by rivers and eroded by sea on the west, stretches of the plateau surface is still preserved, and forms extensive monotonous sandplains, with lateritic outcrops on ridges and breakaways also common. Sandy soils are found throughout.

### 2.3 REGIONAL VEGETATION

The Study area is located within the Geraldton Sandplains IBRA bioregion (Commonwealth of Australia 2012), with the vegetation within this bioregion comprised of proteaceous scrub-heaths rich in endemics. York Gum and Jam woodland occur on outwash plains and associated drainage (Desmond and Chant 2001). The vegetation of the GS3 subregion, within which the Study area occurs, consists mainly of shrub-heaths rich in endemics on a mosaic of lateritic mesas, sandplains, coastal sands and limestones, with heath on lateritised sandplains along the north-eastern margins of the subregion.

The Study area is located within the Northern Sandplains Region (Irwin Botanical District) of the South-Western Botanical Province (Beard 1990). The vegetation of the Irwin Botanical District consists of scrub heath on sandplains near the coast, with *Acacia-Casuarina* thickets further inland, and *Acacia* scrub with scattered trees of *Eucalyptus loxophleba* on the hard-setting loams (Beard 1990). The vegetation of the sandplains is kwongan, however structural and compositional changes are evident in relation to changes in climate and soil; north and east of Eneabba to the Greenough River, low heath on dense laterite with *Hakea auriculata* and *Banksia* (formerly *Dryandra*) *fraseri* is present. On lateritic sand, *Hakea obliqua* drops out and the scrub heath is very heterogeneous without any obvious dominance of character species. The *Banksia-Xylomelum* alliance community appears on deep sand, with *Banksia attenuata*, *B. burdettii* and *B. prionotes* being character species (Beard 1990).

The Study area occurs within the Tathra vegetation system, as mapped by Beard (1976). The Tathra system is the most extensive system in the Dongara area, with the western edge being the foot of the slope down to the Eneabba Plain (Eridoon System), and the eastern extent being associated with the Urella Fault. The majority of the Tathra unit is composed of sandplain with a uniform scrub heath assemblage, which has a rich, heterogeneous flora assemblage, within which it is very difficult to assess dominance of any particular species. The scrub heath consists of scattered shrubs between 1 – 2 m in height, with a denser layer of smaller shrubs at <1 m. *Nuytsia*

*floribunda* was present, as well as *Eucalyptus todtiana* in valleys and deeper sand, with *Banksia attenuata*, *B. menziesii* and *B. prionotes*.

On outcrops of laterite on ridges and breakaways within the Tathra system, a low heath to 60 cm is present with *Hakea auriculata* being a dominant species. Other species such as *Banksia fraseri*, *Melaleuca scabra*, *Allocasuarina* (formerly *Casuarina*) *humilis*, *Petrophile* sp., *Melaleuca radula* and Restionaceae species are also present in these areas.

Shepherd *et al.* (2002) mapped and described vegetation system associations in the Northern Sandplains Region related to physiognomy, expanding on mapping undertaken by Beard (1976). Vegetation associations were described at a scale of 1:250,000. The Study area contains two vegetation system associations which are summarised in Table 1. Table 1 also presents the current extent of each vegetation system association in relation to the pre-European extent, and the extent in Department of Environment and Conservation (DEC)-managed lands, including conservation reserves (Government of Western Australia 2011). Both vegetation system associations are currently at well below their pre-European extents, with very little (less than 25 %) of each association reserved in conservation estate (Table 1).

**Table 1: Extent of Vegetation Associations within the Study Area (Shepherd *et al.* 2002; Government of Western Australia 2011)**

Vegetation Association	Description	Current Extent (ha)	Percentage of Pre-European Extent Remaining	Percentage of Current Extent Reserved in DEC-Managed Lands
Tathra 49	Shrublands; mixed heath	14,446.7	36.4	24.1
Tathra 379	Shrublands; scrub-heath on lateritic sandplain in the central Geraldton Sandplain Region	130,310.4	23.9	21.8

A search of the DEC Threatened Ecological Communities (TEC) and Priority Ecological Communities (PEC) Database was requested for a 20 km buffer zone surrounding the point location 336000mE, 6743000mN (GDA94, Zone 50) (between Tomkins Road and Sand Plain Creek) (DEC 2011a).

Results of the database search indicate that several occurrences of 2 TECs are known within this area (but outside the Study area): the Endangered TEC ‘Assemblages of organic mound springs of the Three Springs area’ and Vulnerable TEC ‘Ferricrete floristic community (Rocky Springs type)’. The nearest known locations of these TECs are approximately 10 km east of the Study area. No PEC locations are known within the 20 km buffer zone (DEC 2011a). Appendix A presents definitions of categories and criteria for TECs and PECs (DEC 2010a).

A search of the Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC) database with regard to environmental matters of national significance as listed under the *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act), was also performed for the Study area (DSEWPaC 2012a). The results of this search indicate that no nationally-listed

threatened ecological communities are known from the Study area. The results of this search are presented in Appendix B.

## 2.4 REGIONAL FLORA

The DEC threatened flora databases, including the Western Australian Herbarium (WAHerb) specimen database and the Threatened and Priority Flora database (TPFL), were searched for information regarding conservation significant taxa known from within or in the immediate vicinity of the Study Area (DEC 2011b). The Threatened and Priority Flora list (TP List) was also searched; this list provides information on taxa known to occur in the general region of the Study area. The search was requested for a 15 km buffer zone surrounding the point location 336000mE, 6743000mN (GDA94, Zone 50) (between Tomkins Road and Sand Plain Creek). Appendix C presents the results of the database searches, including the preferred habitat and flowering period of each taxon. Appendix D presents conservation codes for Western Australian flora (DEC 2012a).

A total of nine Threatened (Declared Rare Flora – Extant) (T (DRF)) and 62 Priority flora taxa were returned from the search of the DEC database (DEC 2011b). However, it was discovered that subsequent to the search being conducted, 1 Priority flora taxon returned from the list (*Georgeantha hexandra*) had been removed as a Priority flora taxon (DEC 2012a), therefore bringing the number of Priority flora taxa returned from the search to 61. Of the T (DRF) taxa returned, a WAHerb location of *Eucalyptus leprophloia* occurs within the Study area, however no other T (DRF) taxa are known to occur in the Study area. Nine Priority flora taxa have records in the Study Area. These taxa are highlighted in Appendix C.

Prior to survey in 2012 (see Section 3.3), a search of the WAHerb specimen database and TPFL database for records of conservation significant flora taxa was performed for a 15 km buffer zone around the same point location listed above using the online tool NatureMap (DEC 2012b). This was to determine whether any additional records of conservation significant taxa had been entered into these databases subsequent to the original interrogation of these databases detailed above. No additional conservation significant taxa were found to occur in the search area, with no additional records of taxa previously recorded in the original database interrogation found to occur in the Study area.

The search of the DSEWPaC database (DSEWPaC 2012a) indicates that 17 nationally-listed threatened flora taxa are either likely to occur in the vicinity of the Study area, or habitat for such species is likely to occur in the vicinity of the Study area. The results of the above search are presented in Appendix B. The taxa identified during the search are listed below:

<u>Species</u>	<u>EPBC Act Conservation Status</u>
<i>Banksia serratuloides</i> subsp. <i>perissa</i>	Vulnerable
<i>Centrolepis caespitosa</i>	Endangered
<i>Chorizema humile</i>	Endangered
<i>Conostylis dielsii</i> subsp. <i>teres</i>	Endangered
<i>Conostylis micrantha</i>	Endangered
<i>Daviesia speciosa</i>	Endangered
<i>Eucalyptus balanites</i>	Endangered

<i>Eucalyptus crispata</i>	Vulnerable
<i>Eucalyptus impensa</i> :	Endangered
<i>Eucalyptus leprophloia</i>	Endangered
<i>Eucalyptus rhodantha</i> var. <i>rhodantha</i>	Vulnerable
<i>Hemiandra gardneri</i>	Endangered
<i>Leucopogon obtectus</i>	Endangered
<i>Pityrodia axillaris</i>	Critically Endangered
<i>Schoenia filifolia</i> subsp. <i>subulifolia</i>	Endangered
<i>Stawellia dimorphantha</i>	Vulnerable
<i>Wurmbea tubulosa</i>	Endangered

All species listed above, apart from *Pityrodia axillaris*, *Centrolepis caespitosa*, occur in the Geraldton Sandplains Bioregion. There are no known occurrences of *Centrolepis caespitosa* in the Geraldton Sandplains Bioregion. This species is known from the Swan Coastal Plain around Perth and on the South Coast around Albany (DEC 2012a). *Pityrodia axillaris* is only known from the Avon Wheatbelt, Yalgoo and Swan Coastal Plain Bioregions (DEC 2012a). *Eucalyptus leprophloia* is the only taxon known from the Study area (DEC 2011b).

The results of the search of the DSEWPaC database (DSEWPaC 2012a) also indicate that 4 significant invasive taxa (or habitat for such taxon) potentially occur within the Study area: *Asparagus asparagoides* (Bridal Creeper), *Cenchrus ciliaris* (Buffel Grass), *Lycium ferocissimum* (African Boxthorn) and *Tamarix aphylla* (Athel Pine). All have locations within the Northern Sandplains Bioregion (DEC 2012a).

*Asparagus asparagoides* and *Tamarix aphylla* are both listed as Declared Pests in Western Australia under the *Biosecurity and Agriculture Management Act 2007* (BAM Act) (Department of Agriculture and Food 2013). These taxa have been placed into Control Category 3 (Management) for the whole of Western Australia (Department of Agriculture and Food 2013). According to the *Biosecurity and Agriculture Management Regulations 2013* (Government of Western Australia 2013a), a Declared Pest is assigned to Category 3 if, in the opinion of the Minister for Agriculture and Food, eradication of the Declared Pest from an area or part of an area for which it is declared is not feasible but that it is necessary to —

- (i) alleviate the harmful impact of the Declared Pest in the area; or
- (ii) reduce the number or distribution of the Declared Pest in the area; or
- (iii) prevent or contain the spread of the Declared Pest in the area.

It is then an obligation of the person or organisation controlling an area to take prescribed control measures to control the Declared Pest, under the BAM Act (Government of Western Australia 2013b).

These taxa were also listed by the Federal Government of Australia as Weeds of National Significance (Australian Weeds Committee 2012), and are under national management for the purpose of restricting their spread, and eradicating them from parts of Australia.

*Lycium ferocissimum* and *Cenchrus ciliaris* are not listed as Declared Pests in Western Australia (Department of Agriculture and Food 2013) but are considered by the States and Territories to pose a particularly significant threat to biodiversity, as

they are well known to be particularly invasive under certain conditions (Hussey *et al.* 2007; DSEWPac 2012a).

In Western Australia, *Asparagus asparagoides*, *Cenchrus ciliaris*, *Lycium ferocissimum* and *Tamarix aphylla* are listed under the then-Department of Conservation and Land Management's (CALM) (now DEC) Environmental Weed Strategy for Western Australia (CALM 1999). This strategy assessed and rated environmental weeds in terms of their environmental impact on biodiversity. Each weed species was rated according to 3 criteria, namely invasiveness, distribution and environmental impact, and was assigned a score of 'High', 'Moderate', 'Mild' or 'Low'. These ratings were then used to determine an order of priority for control and/funding. *Asparagus asparagoides*, *Cenchrus ciliaris* and *Lycium ferocissimum* were ranked 'High', while *Tamarix aphylla* was ranked 'Moderate'. Appendix E provides descriptions of each rating in the Environmental Weed Strategy for Western Australia.

A search of the WAHerb specimen database for records of introduced taxa known within the Study area and surrounds was performed using the online tool NatureMap (DEC 2012b). Three introduced taxa were returned from the search: *Corrigiola litoralis* (Strapwort), *Lupinus angustifolius* (Narrowleaf Lupin) and *Lysimachia arvensis* (Pimpernel). None of these taxa are listed as Declared Pests (Department of Agriculture and Food 2013). Under the Environmental Weed Strategy for Western Australia (CALM 1999), *Lysimachia arvensis* was ranked 'Moderate', *Lupinus angustifolius* was ranked 'Mild', and *Corrigiola litoralis* was ranked 'Low'.

## 2.5 LOCAL FLORA AND VEGETATION SURVEYS

Within the Study area itself, Woodman Environmental undertook a flora survey of the proposed West Erregulla-2 well site in November 2008 (Woodman Environmental 2009a). The area surveyed consisted of a 150 m x 150 m well pad area, as well as surveying existing access tracks from Natta Road to the West Erregulla-2 well pad area. Two plant communities with similar plant species were recorded within the proposed West Erregulla-2 well site area (Woodman Environmental 2009a):

- W1: Very Open Shrub Mallee of *Eucalyptus pleurocarpa* with emergent *Eucalyptus todtiana* over Dwarf Scrub of mixed species dominated by *Hakea incrassata*, *Ecdeiocolea monostachya* and *Lambertia multiflora* on grey sand over laterite
- H1: Low Heath of mixed species dominated by *Hibbertia hypericoides*, *Calothamnus sanguineus*, *Leptospermum erubescens* and *Ecdeiocolea monostachya* with emergent *Eucalyptus pleurocarpa* on grey sand over laterite

Neither of the plant communities above are representative of listed TECs or PECs (DEC 2012c, d). Both plant communities are similar to Floristic Community Type (FCT) 5e mapped within the Tiwest Dongara survey area (Woodman Environmental 2009b), located just to the west of the Study area, which is described as 'Heath to Low Heath dominated by *Banksia* spp. and *Melaleuca* spp. over *Ecdeiocolea monostachya* on grey or brown sandy clay or gravel on lower slopes and plains', and was mapped on the eastern margins of the survey area on the lateritic soils of the Tathra System. FCT 5e was considered to be of relatively high conservation

significance (Woodman Environmental 2009b), due to the presence of *Paracaleana dixonii* (T (DRF)) in this FCT within the survey area. However *Paracaleana dixonii* (T (DRF)) was not recorded within the West Erregulla-2 well site survey area.

A total of 69 flora taxa were recorded within the West Erregulla-2 well site survey area, from 21 families and 49 genera. No introduced (weed) species were recorded (Woodman Environmental 2009a). Eight Priority Flora taxa were recorded within the survey area, as listed in Table 2 below.



**Table 2: Priority Flora Taxa Recorded within the West Erregulla 2 Well Site Survey Area (Woodman Environmental 2009a)**

Taxon	Conservation Code
<i>Banksia fraseri</i> ?var. <i>crebra</i>	P3
<i>Banksia scabrella</i>	P4
<i>Guichenotia impudica</i>	P3
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	P3
<i>Micromyrtus rogeri</i>	P1
<i>Persoonia filiformis</i>	P2
<i>Stylidium drummondianum</i>	P3
<i>Synaphea ?oulopha</i>	P1

Woodman Environmental undertook a flora and vegetation survey of the proposed Eneabba-Moonyoonooka transmission line route for Western Power, in November 2007 with supplementary work undertaken in July and September 2008 (Woodman Environmental 2009c), and in August and October 2010 (Woodman Environmental 2010). The transmission line route passes roughly through the eastern edge of the large block of VCL within the Study area. A total of 34 plant communities (15 Woodlands and 19 Shrublands (including heaths and thickets)) were described and mapped over the proposed Eneabba-Moonyoonooka transmission line route, with 7 disturbed variations of these plant communities also mapped. Three degraded plant communities were also mapped, including Totally Cleared (C1) and areas of remnant trees existing in paddocks (C1a). No TECs or PECs were recorded along the proposed line route (Woodman Environmental 2009c; 2010).

For the section of the transmission line that lies within the Study area, the following 12 undisturbed plant communities were recorded (Woodman Environmental 2009c):

- W2: Open Low Woodland of *Eucalyptus accedens* over Dwarf Shrubland of *Melaleuca* species and *Hakea lissocarpa* on grey silty-sand over laterite on a midslope;
- W6: Open Low Woodland of *Banksia prionotes* and occasional *Allocasuarina campestris* over Dwarf Shrubland of *Ecdeiocolea monostachya* and *Banksia attenuata* on yellow sand in gullies and on slopes;
- W10: Open Low Woodland of *Eucalyptus ?gittinsii* subsp. *illucida* over Low Heath dominated by *Ecdeiocolea monostachya* and *Melaleuca aspalathoides* on pale brown silty-sand on flats;
- W11: Open Low Woodland of *Eucalyptus todtiana* over Low Heath of mixed species including *Melaleuca ciliosa*, *Ecdeiocolea monostachya*, *Leptospermum erubescens*, *Lambertia multiflora* var. *multiflora* and *Adenanthos cygnorum* on grey-yellow-brown sands on midslopes;
- W12: Open Low Woodland of *Eucalyptus camaldulensis* over Thicket dominated by *Acacia saligna* subsp. *lindleyi* ms and *Melaleuca viminea* subsp. *viminea* on brown sandy-clay on river banks;

- H1: Low Heath dominated by *Melaleuca aspalathoides*, *Melaleuca ?tinkeri* and *Hakea* species on skeletal brown sandy-silt on laterite;
- H4: Thicket of *Allocasuarina campestris* over occasional Dwarf Scrub of *Melaleuca* species on skeletal grey-brown sand on laterite;
- H8: Low Heath of mixed species dominated by *Melaleuca ciliosa*, *Ecdeiocolea monostachya*, *Lambertia multiflora* var. *multiflora*, *Leptospermum erubescens*, *Banksia shuttleworthiana* and *Hibbertia hypericoides* with occasional *Banksia ?lanata*, *Banksia attenuata* and *Banksia hookeriana* and occasional emergent *Eucalyptus todtiana* on yellow-brown and grey sands on mid-upper slopes;
- H10: Heath dominated by *Banksia ?leptophylla* and *Dryandra sessilis* var. *flabellifolia* over Dwarf Scrub dominated by *Hibbertia hypericoides* on grey-brown sandy-silt on a midslope;
- H11: Heath dominated by *Calothamnus quadrifidus* and *Melaleuca hamata* over Open Dwarf Scrub of *Verticordia densiflora* on grey silty sand;
- H17: Occasional Open Scrub of *Acacia rostellifera* over Low Heath dominated by *Melaleuca ?tinkeri* on grey sandy-clay on midslopes; and
- H19: Thicket of *Allocasuarina campestris* over mixed herbs including *Drosera macrantha* subsp. *eremaea*, *Chamaescilla versicolor* and pasture grasses on brown sandy clay on creek banks.

Of the 3 degraded plant communities mapped for the entire transmission line route, 2 were recorded within the Study area, including Totally Cleared (Cl) and areas of remnant trees in paddocks (Cla).

A total of 397 discrete vascular plant taxa were recorded along the proposed transmission line route during surveys in 2007-2008 for Western Power (Woodman Environmental 2009c), comprising 56 families and 151 genera. The dominant families were Myrtaceae (74 discrete vascular plant taxa), Proteaceae (70), Papilionaceae (18), Mimosaceae (18) and Cyperaceae (18 including 1 introduced (weed) species). Included in this total were 7 introduced (weed) taxa, 1 of which (*Echium plantagineum*) is a Declared Weed of P1 control code status (throughout the State), under the ARR Act. However, no weeds were recorded within the Study area. A total of 41 conservation-significant flora taxa were recorded, including 5 DRF and 36 Priority Flora taxa. Of these, a total of 11 Priority flora taxa were recorded in or in the vicinity of the Study area, as listed below in Table 3).

**Table 3: Priority Flora Taxa Previously Recorded within the Study Area by Woodman Environmental (2009c; 2010)**

Taxon	Conservation Code
<i>Banksia fraseri</i> var. <i>crebra</i>	P3
<i>Banksia scabrella</i>	P4

Taxon	Conservation Code
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	P4
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	P3
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	P3
<i>Micromyrtus rogeri</i>	P1
<i>Schoenus griffinianus</i>	P3
<i>Stylidium carnosum</i> subsp. Narrow leaves (J.A. Wege 490)	P1
<i>Stylidium drummondianum</i>	P3
<i>Synaphea aephyrsa</i>	P3
<i>Synaphea oulopha</i>	P1

Woodman Environmental (2004) conducted plant community mapping for ARC's Denison 3D seismic survey during Spring 2004. The project encompassed an area of approximately 39,400ha, including 11,455ha of nature reserves (Yardanogo, Beekeepers and Dongara Nature Reserve). The survey area for this study is located approximately 10 km west of the Study area, and not within the Tathra vegetation system. A total of 34 plant communities, 7 disturbed communities and 7 mosaic units were mapped over the Denison 3D survey area in 2004. The plant communities consisted of Forests, Woodlands, Thickets, Scrub, Shrublands and Heaths with the woodland communities recording the highest species richness on average. Two heath communities also recorded high species richness. The condition of vegetation within the survey area varied between Very Poor and Excellent. The vegetation mapped during the Denison 3D survey did not represent any known TECs. However, the wetland system mapped on private property and within the Yardanogo Nature Reserve is considered to be highly conservation significant (Woodman Environmental 2004).

A total of 515 vascular plant taxa belonging to 81 plant families were recorded during the Denison 3D seismic survey, including 1 T (DRF) species (*Stawellia dimorphantha* – now P4) and 8 Priority Flora species. The dominant families recorded during the survey were Myrtaceae (55 native taxa), Proteaceae (38 native taxa), Asteraceae (25 native taxa), Cyperaceae (23 native taxa), Papilionaceae (19 native taxa), Orchidaceae (16 native taxa) (Woodman Environmental 2004).

Woodman Environmental (2009b) conducted detailed flora and vegetation studies of the Tiwest Dongara survey area between 2006 and 2008, to define vegetation type boundaries and identify conservation significant flora. This survey area is located approximately 5 km west of the Study area, and includes a portion of the Tathra vegetation system. It was located within the greater Northern Sandplains Study Area (NSSA), which extends from the Tiwest Dongara survey area through to the Iluka Resources Limited (Iluka) Project Area (commencing north of Eneabba) (Woodman Environmental 2009d), with the study jointly conducted by Tiwest and Iluka. Twenty-one FCTs were mapped and described within the Tiwest Dongara survey area. Supergroup 1 consisted of Woodlands, Thickets and Heaths on well drained sandy soils and sandy clay over lateritic gravel; Supergroup 2 consisted of Woodlands, Thickets, Heaths and Scrub predominantly on heavier clay soils on lower slopes, drainage lines and depressions and sandy soils over limestone. The majority of the vegetation within the survey area was considered to be in Pristine or Excellent condition. None of the FCTs described during the study correspond with known TECs or PECs.

A total of 543 native vascular plant taxa belonging to 72 plant families were recorded within the survey area between 2006 and 2008. The dominant families were Myrtaceae (75 taxa), Proteaceae (64 taxa) and Cyperaceae (30 taxa). One T (DRF) species, *Paracaleana dixonii*, and 21 Priority Flora species were recorded within the survey area (Woodman Environmental 2009b).

The Iluka Project Area surrounds the town site of Eneabba, located approximately 40 km south of the Study area, and abuts the Tiwest Dongara survey area in the north. Within the Iluka Project Area, a total of 36 FCTs were mapped and described (Woodman Environmental 2009d). FCT Super Group 1 consisted of Woodlands, Thickets and Heaths on well drained sandy soils and sandy clays over lateritic gravel, with Super Group 2 consisting of Woodlands, Thickets, Heaths and Scrub predominantly on heavier clay soils on lower slopes, drainage lines and depressions and sandy soils over limestone. The majority of the native vegetation surveyed within the Iluka Project Area was found to be in Very Good to Pristine condition. Several of the FCTs were highly locally restricted, with 2 such FCTs noted as being possibly part of the Rocky Springs TEC, as both contain species listed as occurring within this ecological community.

A total of 940 vascular plant taxa belonging to 74 plant families were recorded within the Iluka Project Area (Woodman Environmental 2009d). The dominant families were Myrtaceae (138 taxa), Proteaceae (134 taxa) and Fabaceae (61 taxa). A total of 11 DRF species have been recorded by within the Iluka Project Area. These are *Eucalyptus crispata*, *Eucalyptus johnsoniana*, *Eucalyptus subarea*, *Grevillea althoferorum*, *Grevillea curviloba* subsp. *incurva*, *Hakea megalosperma*, *Leucopogon* sp. ciliate Eneabba (F. Obbens & C. Godden s.n. 3/7/2003), *Leucopogon obtectus*, *Paracaleana dixonii*, *Tetralthea nephelioides* and *Thelymitra stellata*. A total of 72 Priority Flora species have been recorded in the Iluka Project Area.

## 2.6 OVERVIEW OF CONSERVATION SIGNIFICANT AND INTRODUCED FLORA RELEVANT TO THE STUDY AREA

A list of conservation significant flora taxa that are either known within or in close proximity to the Study area is presented in Table 4. This list has been compiled from the results of searches of DEC's databases (Appendix C), and from historical local flora surveys undertaken within and in the immediate vicinity of the Study area as detailed above. Conservation significant flora taxa recorded from the local surveys listed above that are outside the Study area were not included, as the surveys were undertaken within different vegetation systems, and were generally located some distance away from the Study area. A total of 73 conservation significant flora taxa, including 9 T (DRF) taxa, are known to occur within or in close proximity to the Study area. Taxa shaded in Table 4 are those that have records within the Study Area.

**Table 4: Conservation Significant Flora Taxa Known to Occur Within or in the Vicinity of the Study Area**

Taxon	Conservation Code	Preferred Habitat Requirements	Flowering Period
<i>Acacia congesta</i> subsp. <i>cliftoniana</i>	P1	Rocky or lateritic loam	Aug-Sep
<i>Acacia flabellifolia</i>	P3	Rocky loam, lateritic gravelly soils; low hills and ridges	Aug
<i>Acacia lineolata</i> subsp. <i>multilineata</i>	P1	Yellow sand, rocky clay, sand plains	Jun-Aug
<i>Acacia megacephala</i>	P2	White or yellow sand, sandplains	Jul-Sep
<i>Acacia vittata</i>	P2	Grey sand, sandy clay, margins of seasonal lakes	Aug
<i>Baeckea</i> sp. Billeranga Hills (ME Trudgen 2206)	P1	Yellow sand, clayey sand over granite, stoney hills	Sep
<i>Banksia cypholoba</i>	P3	Sand and gravelly loam	Aug
<i>Banksia elegans</i>	P4	Yellow, white or red sand, sandplains, low coastal dunes	Oct-Nov
<i>Banksia fraseri</i> var. <i>crebra</i>	P3	White sand on slope, low lateritic hill, brown gravelly loam, grey sandy gravel	Jul-Aug
<i>Banksia fraseri</i> var. <i>oxycedra</i>	P3	Lateritic gravel, hill slopes and breakaways	Jul-Sep
<i>Banksia scabrella</i>	P4	White, grey or yellow sand, sometimes with lateritic gravel, sandplains, laterite ridges	Sep-Jan
<i>Banksia trifontinalis</i>	P3	Laterite	Aug-Oct
<i>Beyeria gardneri</i>	P3	Yellow sand	Aug-Sep
<i>Calectasia cyanea</i>	T (DRF)	White, grey or yellow sand, gravel	Jun-Oct
<i>Calectasia palustris</i>	P1	White or grey sand, seasonally inundated swamps	Jul-Oct
<i>Calothamnus arcuatus</i>	P2	Clay loam over sandstone, yellow sand over gravel, grey sand, sandstone, grey shallow sand-loam, siltstone; upland areas, hillside, creek bank, drainage lines	Apr/Jun/ Aug
<i>Calytrix chrysantha</i>	P4	Grey or yellow brown sand, flats	Dec-Feb
<i>Calytrix eneabbenensis</i>	P4	White, grey or yellow sand over laterite, sandplains	Jul-Oct

Taxon	Conservation Code	Preferred Habitat Requirements	Flowering Period
<i>Comesperma griffinii</i>	P2	Yellow or grey sand, plains	Oct
<i>Daviesia speciosa</i>	T (DRF)	Gravelly lateritic soils, undulating plains, rises	Apr-May
<i>Diuris eburnea</i>	P1	Damp areas near rivers	Nov
<i>Eryngium pinnatifidum</i> subsp. <i>palustre</i> ms	P3	Clay, sandy clay, clay pans, seasonally wet flats	Oct-Nov
<i>Eucalyptus abdita</i>	P2	Laterite, sandy clay with gravel over laterite, slopes, breakaways	Oct?/Feb
<i>Eucalyptus crispata</i>	T (DRF)	Sand, loam with lateritic gravel, lateritic breakaways	Mar-Jun
<i>Eucalyptus leprophloia</i>	T (DRF)	White or grey sand over laterite, valley slopes	Aug-Oct
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	P4	White or grey sand over laterite, hillslopes, ridges, sandplains	Aug-Dec
<i>Eucalyptus macrocarpa</i> x <i>pyriformis</i>	P3	Sand, lateritic sand soils, hills, rocky, ironstone ridges, sandplains	Apr/Aug-Oct
<i>Frankenia glomerata</i>	P3	White, yellow or yellow-brown sand, white-brown sandy clay, margins of or dunes of salt lakes	Nov
<i>Grevillea erinacea</i>	P3	White, grey or yellow sand, gravelly soil or sand, amongst medium or low trees, heathlands, sandplains	Jul-Dec
<i>Grevillea makinsonii</i>	P3	White, yellow or grey sand over laterite, loam, gravel, clay, rocky hills, sandplains, amongst medium or low trees, heathlands, sandplains	Jul-Oct
<i>Grevillea murex</i>	T (DRF)	Yellow, brown or red sand, clay loam, amongst medium or low trees or tall sclerophyll shrubland	Aug-Oct
<i>Guichenotia alba</i>	P3	Sandy and gravelly soils, low lying flats and depressions	Jul-Aug

Taxon	Conservation Code	Preferred Habitat Requirements	Flowering Period
<i>Guichenotia impudica</i>	P3	Undulating plains and hills, clay or sandy loams with laterite	Aug-Oct
<i>Guichenotia quasicalva</i> ms	P2	Sandy clay over laterite, drainage lines	Sep-Oct
<i>Haloragis foliosa</i>	P3	White-grey sand or limestone	Oct
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	P3	Sand, disturbed sites	Feb
<i>Hensmania stoniella</i>	P3	White, grey or lateritic sand, often Winter wet	Sep-Nov
<i>Homalocalyx chapmanii</i>	P2	Yellow or grey-brown sand, undulating plains, weathered granite	Sep-Oct
<i>Hopkinsia anoectocolea</i>	P3	White or grey sand, often saline, Winter wet depressions, floodplains, salt lakes	Sep-Dec
<i>Hypocalymma angustifolium</i> subsp. Hutt River (S. Patrick 2982)	T (DRF)	Moist, brown black peat-clay, peat-loam, peat, grey clay; swamps, creeks	Aug-Sep
<i>Lasiopetalum ogilvieanum</i>	P1	White, grey or yellow sand, stoney loam, undulating plains, lateritic rises	Jul-Oct
<i>Leucopogon marginatus</i>	T (DRF)	Yellow and lateritic gravelly sand, undulating plains	Jul-Aug
<i>Leucopogon</i> sp. Dudawa (M. Hislop & J. Borger MH 3829)	P1	Sandstone breakaways, rocky grey loam over sandstone	Sep
<i>Melaleuca sclerophylla</i>	P3	Gravelly sand, clayey sand, granite outcrops, rises	Jun-Sep
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	P3	White, grey or lateritic sand, clay gravel	Mar-Oct
<i>Micromyrtus rogeri</i>	P1	Yellow-brown sandy soils, gravel, laterite, breakaways	Jul-Oct
<i>Micromyrtus uniovula</i>	P2	Sandy soil over laterite, rises	Sep-Nov
<i>Paracaleana dixonii</i>	T (DRF)	Grey sand over granite	Oct-Jan
<i>Persoonia filiformis</i>	P2	Yellow or white sand over laterite	Nov-Dec
<i>Persoonia rudis</i>	P3	White, grey or yellow sand, often over laterite	Sep-Jan
<i>Pityrodia viscida</i>	P3	Lateritic sand	Sep-Feb

Taxon	Conservation Code	Preferred Habitat Requirements	Flowering Period
<i>Schoenus badius</i>	P2	Grey sand, moist areas	Sep-Oct
<i>Schoenus griffinianus</i>	P3	Grey or white sand, plains and sand dunes	Sep-Oct
<i>Schoenus</i> sp. Eneabba (F. Obbens & C. Godden I154)	P2	Grey, yellow or white sand, undulating sandplains, midslopes, tops of rises	Apr
<i>Scholtzia</i> sp. Yandanooka (R. Soullier 646)	P1	Dry yellow-red sand, granite, sandplains, outcrops	Nov-Dec
<i>Stawellia dimorphantha</i>	P4	White, grey or yellow sand	Jun-Nov
<i>Stylidium carnosum</i> subsp. Narrow leaves (J.A. Wege 490)	P1	Grey sand, plains	Sep
<i>Stylidium drummondianum</i>	P3	Sand or clayey sand over laterite, upper hillslopes, breakaways, low heath, mallee	Aug-Oct
<i>Stylidium</i> sp. Three Springs (J.A. Wege & C. Wilkins JAW 600)	P2	Yellow-brown clayey sand over laterite, yellow-brown clayey loam over granite, ironstone breakaway, loamy soils over granite, clay loams with scattered gravel, rocky hill with lateritic stones	Sep
<i>Stylidium torticarpum</i>	P3	Sandy clay and clay loam over laterite, adjacent to creek lines, depressions, beneath breakaways, heath or mallee shrubland	Sep-Nov
<i>Synaphea aephyrsa</i>	P3	Gravelly laterite, sand over laterite	Jul-Oct
<i>Synaphea oulopha</i>	P1	Grey sand, gravelly loam, clay, lateritic breakaways and rises	Jul-Oct
<i>Synaphea sparsiflora</i>	P2	Sandy loam over laterite	Aug-Sep
<i>Thelymitra stellata</i>	T (DRF)	Sand, gravel, lateritic loam	Oct-Nov
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	P3	Yellow sand, loam	Jun-Jul
<i>Thysanotus vernalis</i>	P3	Sandy loam	Sep-Oct
<i>Triglochin protuberans</i>	P3	Red loam, grey mud over clay, Winter wet sites, claypans, near salt lakes, margins of pools	Aug-Oct
<i>Verticordia dasystylis</i> subsp. <i>oestopoia</i>	P1	Gritty soils over granite, outcrops	Oct



<b>Taxon</b>	<b>Conservation Code</b>	<b>Preferred Habitat Requirements</b>	<b>Flowering Period</b>
<i>Verticordia densiflora</i> var. <i>roseostella</i>	P3	Sandy, gravelly soils	Sep-Dec
<i>Verticordia luteola</i> var. <i>luteola</i>	P3	Grey sand over gravel, flats	Nov-Dec
<i>Verticordia luteola</i> var. <i>rosea</i>	P1	White sand, flats	Dec-Jan
<i>Verticordia penicillaris</i>	P4	Shallow gritty soils, granite outcrops	Sep-Oct

A list of introduced species known from within or in close proximity to the Study area has been compiled from WAHerb specimen data (Table 3), and from historical local flora surveys as detailed above. As no introduced taxa have previously been recorded in the Study area, only the taxa known from WAHerb specimen data have been included in the list (Table 5).

**Table 5: Introduced Taxa Known to Occur Within or in the Vicinity of the Study Area**

<b>Taxon</b>	<b>Common Name</b>	<b>Comments</b>
<i>Corrigiola litoralis</i>	Strapwort	Rated as 'Low' under Environmental Weed Strategy for Western Australia (CALM 1999)
<i>Lupinus angustifolius</i>	Narrowleaf Lupin	Rated as 'Low' under Environmental Weed Strategy for Western Australia (CALM 1999)
<i>Lysimachia arvensis</i>	Pimpernel	Rated as 'Low' under Environmental Weed Strategy for Western Australia (CALM 1999)

### 3. METHODS

#### 3.1 PERSONNEL AND LICENSING

Table 6 lists the personnel involved in both fieldwork and plant identifications for the study. All personnel have had previous field experience in the Northern Sandplains Region, with personnel involved in plant identifications having extensive taxonomic experience with the flora of the Northern Sandplains Region. All plant material was collected under the scientific licences (pursuant to *Wildlife Conservation Act 1950* Section 23C and Section 23F) as listed in Table 6.

**Table 6: Personnel and Licensing Information**

<b>Personnel</b>	<b>Role</b>	<b>Flora Collecting Permit / Permit to take DRF</b>
Greg Woodman	Fieldwork	SL009403, 145-1011
David Coultas	Fieldwork, Plant Identifications	SL009406; SL009960; 149-1011
Lisa McFarlane	Fieldwork	SL009435, SL009958
Bianca Taylor	Fieldwork	SL009416
Neal Henshaw	Fieldwork	SL009410
Terri Jones	Fieldwork	SL009952
Bethea Loudon	Fieldwork	SL009414; 64-1112
Samuel Coultas	Fieldwork	-
Peter Malajczuk	Fieldwork	-
Melissa Bestwick	Fieldwork	-
Frank Obbens	Fieldwork; Plant Identifications	-
Sharnya Thomson	Fieldwork; Plant Identifications	-

#### 3.2 INITIAL AERIAL PHOTOGRAPHY INTERPRETATION

Initial interpretation of plant community boundaries was conducted with the use of orthorectified aerial photography at a scale of 1:10,000, supplied to Woodman Environmental by Warrego. Preliminary plant community boundaries were transcribed onto the aerial photography based on visible patterns observed, to allow for ground-truthing of these boundaries to be conducted in the field, via quadrat establishment and mapping notes (see Section 3.3.1). Preliminary quadrat locations were also allocated based on these plant community boundaries. A minimum of 3 quadrats were allocated to each discernible plant community type where possible; such replication is required for meaningful results to be produced following statistical analysis of quadrat data, and to provide local context for VT distribution. This process was undertaken prior to field survey in both 2011 and 2012.

### 3.3 FIELD SURVEY METHODS

#### 3.3.1 Reconnaissance Survey

An initial reconnaissance visit to the Study area was conducted on the 15<sup>th</sup> September 2011. This visit initially served to identify vehicular access within the Study area in preparation for the detailed survey, as accessibility to some areas could not be determined adequately from aerial photography. Notes on preliminary vegetation boundaries were also recorded, as well as any other significant features (wetlands, unusual vegetation types). Opportunistic recordings of known conservation significant flora taxa and introduced (weed) taxa were also made.

#### 3.3.2 Detailed Survey – 2011 Fieldwork

Field survey in 2011 was conducted over 3 visits in Spring: from the 26<sup>th</sup> – 30<sup>th</sup> September, from the 24<sup>th</sup> – 27<sup>th</sup> October, and from the 20<sup>th</sup> – 26<sup>th</sup> November. These visits covered the length of the spring season, during which most taxa in the Northern Sandplains Region are known to flower. A series of 90 permanent flora survey quadrats were established within remnant vegetation located on VCL within the Study area. Quadrats could not be established in remnant vegetation on private property, as permission was not obtained to access any of the properties located in the Study area. No quadrats were established in any road reserves, as these were generally too narrow to allow for quadrat establishment, and were usually impacted to an extent by edge effects such as road grading and weeds.

All quadrats covered an area of 100 m<sup>2</sup>, measuring 10 m by 10 m. This is in line with the size of quadrats used by Gibson *et al.* (1994) in their floristic survey of the Swan Coastal Plain, and is considered appropriate for the Study area. At least 3 quadrats were established within each plant community initially identified from aerial photography interpretation and following the reconnaissance survey. The quadrats were orientated north-south/east-west where possible, with the bearings of each side recorded for any quadrats that could not be established in this fashion. A steel fence dropper was used to permanently mark the north-west corner. A punched aluminium tag with the quadrat number was then attached to each fence dropper. Quadrats were named with a prefix of 'WE' followed by a 3-digit consecutive number (i.e. 001 etc.).

All vascular taxa that were visually identifiable within each quadrat were recorded, and collected as necessary.

The following information was recorded at each site:

- Personnel
- Unique site number
- Date of survey
- GPS coordinates (GDA94)
- Site photograph
- Topography (including landform type and aspect)
- Soil colour and type (including the presence of any rock outcropping and surface stones)
- Vegetation condition (Keighery (1994), displayed in Appendix F)
- Approximate time since fire

- Presence of disturbance (if any)
- Percentage foliage cover (for each species)
- Height (m) (for each species, excluding climbers/aerial shrubs)

Additional flora taxa were also recorded opportunistically via a search around the general vicinity of each quadrat, and during traverses on foot between quadrats.

Mapping notes of plant community distribution were also taken while traversing the Study area on foot and by vehicle. This was to aid in mapping polygons of plant communities that were not allocated quadrats. Time constraints prevented quadrats being allocated to all plant community polygons.

No specific, targeted searching for conservation significant flora species was undertaken during 2011 surveys. However, conservation significant flora and introduced flora were searched for while undertaking survey of quadrats, and while traversing between quadrats.

If populations of known conservation significant flora taxa were identified, particularly those ranked as T (DRF), a representative collection of material was made, and the abundance and spatial distribution (using GPS coordinates) of individuals within each population was recorded where possible. Any populations of introduced flora identified were treated as for populations of conservation significant flora.

### 3.3.3 Detailed Survey – 2012 Fieldwork

#### 3.3.3.1 Additional Vegetation Mapping

Field survey of additional areas of vegetation not surveyed in 2011, including areas on private property that could not be accessed in 2011, was undertaken in Spring 2012. The field survey was undertaken over 2 visits: from the 10<sup>th</sup> – 13<sup>th</sup> September, and from the 2<sup>nd</sup> – 5<sup>th</sup> October. A series of 29 flora survey quadrats were established within remnant vegetation located on VCL and on private property in the Study Area. Quadrats established on VCL were permanently marked as per Section 3.3.2; however quadrats on private property were not permanently marked. Quadrats were surveyed as per methods outlined in Section 3.3.2. Additional flora taxa were also recorded opportunistically via a search around the general vicinity of each quadrat, and during traverses on foot between quadrats.

Additionally, a total of 10 detailed recording sites were surveyed during the field survey in 2012. Detailed recording sites were generally established in areas of vegetation to aid in the mapping VTs, when insufficient time was available to establish a flora survey quadrat. They were also established in degraded areas on private property where the establishment of a flora survey quadrat would have been of little value. Detailed recording sites surveyed an area within a 10 m radius around a central GPS co-ordinate. The same information recorded at flora survey quadrats as outlined in Section 3.3.2 was recorded at the detailed recording sites. Additional flora taxa were also recorded opportunistically via a search around the general vicinity of each detailed recording site, and during traverses on foot between detailed recording sites.

### 3.3.3.2 Targeted Searching for Conservation Significant Flora

During survey in 2011, several taxa ranked as T (DRF), as well as numerous Priority flora taxa, were recorded in the Study Area. As flora taxa ranked as T (DRF) cannot be removed without special permission under the *Wildlife Conservation Act 1950*, targeted searching for these taxa was required, to attempt to define their distributions and abundance in the Study Area. This would serve to either allow all individuals to be avoided during the seismic survey, or provide supporting data to allow for a 'Permit to Take' individuals to be granted by the Western Australian Minister for the Environment (under the *Wildlife Conservation Act 1950*). It was also deemed desirable to conduct targeted searches for certain Priority flora taxa; Priority flora taxa are generally poorly known, and may be considered for listing as T (DRF) if they are considered to be under threat of extinction following sufficient survey. This would serve to either allow all individuals to be avoided during the seismic survey, or provide supporting data to demonstrate an acceptable level of impact to these taxa.

The following methods for targeted searching for conservation significant flora were devised in consultation with the DEC (Daniel Coffey – Environmental Management Branch):

#### **Searching for *Thelymitra stellata* (T (DRF))**

*Thelymitra stellata* is an orchid species that is generally known from small, isolated colonies of individuals over its range (Hoffman & Brown 2011). Because of this, the aim of the searches for this taxon in 2012 was to inspect all areas of potential habitat and record all individuals present, to allow for total avoidance of this species during the seismic survey. *Thelymitra stellata* flowers in October, and can only be identified confidently when in flower. Therefore, searching for this species was conducted over several survey visits in 2012: from the 2<sup>nd</sup> – 5<sup>th</sup> October, from the 8<sup>th</sup> – 12<sup>th</sup> October, and from the 22<sup>nd</sup> – 23<sup>rd</sup> October.

Potential habitat for this species (based on known locations in the Study area and across the species' range) was considered to be areas where laterite is exposed, with areas considered as primary habitat being tops of breakaways and hills. All areas of primary habitat were inspected in 2012, however not all areas of potential habitat were inspected because of time constraints. Searching of this habitat was conducted on a loose grid, with personnel generally spaced approximately 30 m apart, however this varied depending on density of vegetation, with a finer grid (i.e. approximately 15 m) employed in areas of very dense vegetation. More detailed searching was conducted in the immediate vicinity of any individuals found during the gridding. GPS coordinates of all individuals were recorded; in the case of dense clumps of individuals, the number of individuals within a clump was recorded.

#### **Searching for *Paracaleana dixonii* (T (DRF))**

*Paracaleana dixonii* is an orchid species that is generally known from small populations of scattered individuals in grey or white sandy areas (sometimes over laterite); it has been found at a number of locations (usually consisting of only a handful of plants) in this habitat in the nearby Tiwest Dongara survey area (Woodman Environmental 2009b). Because of its habit of growing at low densities over relatively large areas, the aim of the searches for this taxon in 2012 was to inspect as many areas of potential habitat as possible and record all individuals encountered, to allow for total avoidance during the seismic survey if possible, and provide supporting

data to allow for a 'Permit to Take' individuals to be granted if total avoidance is not possible. *Paracaleana dixonii* generally flowers in November and December, and can only be seen easily when in flower. Therefore, searching for this species was conducted over 2 survey visits in 2012: from the 5<sup>th</sup> – 9<sup>th</sup> November, and from the 12<sup>th</sup> – 16<sup>th</sup> November.

Potential habitat for this species (based on known locations in the Study area and across the species' range) was considered to be sandy areas, with areas considered as primary habitat being grey or white sandy areas with lateritic gravel, or laterite near the surface. As a vast amount of the Study area was considered to be primary habitat, a selection of areas across the Study area were inspected in 2012; not all areas of primary habitat could be inspected because of time constraints. Searching of this habitat was conducted on a loose grid, with personnel generally spaced approximately 30 - 50 m apart, however this varied depending on density of vegetation, with a finer grid (i.e. approximately 15 m) employed in areas of very dense vegetation. More detailed searching was conducted in the immediate vicinity of any individuals found during the gridding. GPS coordinates were recorded as above.

#### **Searching for *Eucalyptus crispata* and *E. leprophloia* (both Threatened (DRF))**

*Eucalyptus crispata* and *E. leprophloia* are mallee species generally known from small populations of clumps of individuals associated with lateritic hills and breakaways. As these species are large and tend to grow in discrete clumps, the aim of the searches for this taxon in 2012 was to inspect all areas of potential habitat and record all individuals present, to allow for total avoidance of these species during the seismic survey. Flowering material of these species is not necessarily required for identification, with fruits and buds often present year-round, and as the primary habitat for these species overlaps with both *Thelymitra stellata* and (occasionally) *Paracaleana dixonii*, specific searching for these species was not conducted, with searching undertaken while searching for the aforementioned orchid species. GPS coordinates were recorded as above.

#### **Searching for Potentially Undescribed Taxa**

Collections of a *Eucalyptus* and a *Schoenus* made in 2011 could not be identified, and may represent undescribed taxa. Under the precautionary principle these taxa are required to be avoided pending a taxonomic resolution. Therefore, searches in 2012 aimed to revisit the known locations to collect more material to facilitate identification, and also to inspect all other areas of potential habitat and record all individuals present, to allow for total avoidance during the seismic survey wherever possible, and provide supporting data to demonstrate an acceptable level of impact to these entities if avoidance is not possible. As the known locations of these entities occur in the primary habitat of *Thelymitra stellata* (lateritic hill tops and breakaways), specific searching for these entities was not conducted, with searching undertaken while searching for the aforementioned orchid species. GPS coordinates were recorded as above.

#### **Searching for Priority 1 and 2 Taxa**

A number of Priority 1 and 2 taxa were recorded in the Study area in 2011. Priority 1 and 2 taxa are generally known from few populations that are usually not in secure conservation tenure, and are under threat of habitat destruction or degradation (DEC 2012a). The aim of the searches for these taxa in 2012 was to inspect as many areas of potential habitat as possible and record all individuals encountered, to allow for

avoidance during the seismic survey if practical, and provide supporting data to demonstrate an acceptable level of impact to these taxa if avoidance is not possible. As the primary habitat for the majority of the Priority 1 and 2 taxa overlap with the primary habitat for *Thelymitra stellata* and *Paracaleana dixonii*, searching was conducted while searching for the aforementioned orchid species. Additional targeted searching was also undertaken for species who did not share the primary habitat with the aforementioned orchid species. GPS coordinates and counts were recorded as above.

#### **Searching for Priority 3 and 4 Taxa**

Numerous Priority 3 and 4 taxa were recorded in the Study area in 2011. Priority 3 and 4 taxa are generally known from several localities populations that are usually not under imminent threat, and may be in secure conservation tenure (DEC 2012a). The aim of the searches for these taxa in 2012 was to record all individuals encountered while conducting searches for T (DRF), potentially undescribed and Priority 1 and 2 taxa, to allow for avoidance during the seismic survey where practical, and provide supporting data to demonstrate an acceptable level of impact to these taxa when considering their conservation significance. As the primary habitat for the majority of the Priority 3 and 4 taxa overlap with the primary habitat for the T (DRF), potentially undescribed and Priority 1 and 2 taxa known from the Study area, searching for Priority 3 and 4 taxa was undertaken while searching for the aforementioned taxa, with targeted searching not considered necessary. GPS coordinates and counts were recorded as above.

### **3.4 PLANT COLLECTION AND IDENTIFICATION**

Specimens of any unknown taxa were collected and pressed for later identification at the WAHerb. Identifications were undertaken by experienced taxonomists Sharnya Thomson and Frank Obbens, with assistance from David Coultas. Experts of particular Families or Genera were consulted for any specimens considered to be of taxonomic interest. Species nomenclature follows Florabase (DEC 2012a) with all names checked against the current DEC Max database to ensure their validity. The conservation status of each species was checked against Florabase, which provides the most up-to-date information regarding the conservation status of flora taxa in Western Australia.

Specimens of interest (T (DRF) and Priority Flora taxa, range extensions of taxa and potential new taxa) will be vouchered at the WAHerb at the conclusion of the Project. Threatened and Priority Flora Report Forms (TPRFs) will be submitted to the DEC for all locations of T (DRF) and Priority Flora taxa at the conclusion of the Project.

### **3.5 FLORISTIC ANALYSIS**

Quadrat data only was statistically analysed to determine VTs, using methods similar to those used by the DEC in surveys around Western Australia (e.g. Markey & Dillon 2008). Data from all quadrats established within the Study area were included in the analysis (total of 119 quadrats).

Classification analysis was conducted on a data matrix compiled from the quadrat data, with ephemeral taxa, introduced taxa, known and putative hybrids and

opportunistic recordings (i.e. those taxa recorded outside of the quadrat) excluded from the analysis. The presence of ephemeral taxa is strongly influenced by seasonal rainfall, with fewer taxa and individuals of ephemeral taxa usually present following below-average rainfall. Many ephemeral taxa had finished flowering and fruiting by the time survey was conducted in November 2011, and therefore could not be identified during this survey, meaning ephemeral data across the survey area was not consistent. Introduced taxa were excluded as their distributions are generally defined by the presence of disturbance (e.g. clearing, animal movement) rather than habitat types. Hybrids are generally present as isolated individuals and at scattered locations only, and as they are generally of unknown or presumed origin, it was considered desirable to exclude them given this uncertainty.

Singletons (taxa recorded only once in the quadrat dataset) were included in the analysis. This was considered appropriate for this analysis as many taxa in the Northern Sandplains Region are known to occur over short ranges and occupy specific habitat niches (i.e. breakaway slopes), and therefore the removal of such taxa would potentially result in unusual plant communities characterised by the presence of restricted taxa grouping with more widespread communities (i.e. they would not be recognised as distinct).

Various taxa were grouped together within the data matrix for the analysis where taxonomy was unclear or where different infra-taxa were identified within the dataset and not correlated to plant community, landform or soil type. Some taxa were omitted from the analysis as they could not be positively identified because of inadequate material.

Classification analysis was conducted using PATN (V3.03) (Belbin 1989). The Bray-Curtis coefficient was used to generate an association matrix for both the classification analysis. This association matrix consisted of pairwise coefficients of similarities between quadrats based on floristic data. Agglomerative, hierarchical clustering, using flexible UPGMA ( $\beta=-0.1$ ), was used to generate a species and quadrat classification (Sneath & Sokal 1973). A 2-way table of the species and quadrat matrix was produced, with the matrix sorted into groups generated from the species and quadrat classification. Indicator species analysis (INDVAL) was conducted using PC-Ord (McCune & Mefford 1999) using the method of Dufrene & Legendre (1997). The INDVAL measures were used to determine the indicator species for each VT and a Monte Carlo permutation test was used to test for the significance of the indicator species.

### 3.6 VEGETATION MAPPING AND DESCRIPTION

The species and quadrat classification generated from the statistical analysis of quadrat data was used in conjunction with aerial photography interpretation and field notes taken during the surveys to develop VT mapping polygon boundaries over the Study area. These polygon boundaries were then digitised using Geographic Information System (GIS) software.

VT descriptions have been adapted from the National Vegetation Information System (NVIS) Australian Vegetation Attribute Manual Version 6.0 (ESCAVI 2003). This model follows nationally-agreed guidelines to describe and represent VTs, so that comparable and consistent data is produced nation-wide. For the purposes of this



report, it is considered that a VT is equivalent to a NVIS sub-association as described in ESCAVI (2003). Common taxa within each stratum were generally defined as taxa that occurred in greater than one-third of quadrats established within a particular VT (however, this varied depending on the number of quadrats); these may include taxa not in the VT description, as the VT description is based on dominance within each stratum, as well as the frequency that a taxon was recorded within each VT.

### **3.7 VEGETATION CONDITION MAPPING**

Vegetation condition was recorded at all quadrats and detailed recording sites, and also opportunistically within the Study area where significant areas of disturbance to vegetation were noted (e.g. weed infestations, areas of heavy grazing). Vegetation condition was described using the vegetation condition scale devised by Keighery (1994). This scale is presented in Appendix F. Vegetation condition polygon boundaries were developed using this information in conjunction with aerial photography interpretation, and were digitised as for vegetation mapping polygon boundaries. These polygons are displayed on Figure 7.

### **3.8 SIGNIFICANCE OF CONSERVATION SIGNIFICANT FLORA POPULATIONS AND VEGETATION**

In this report, a population (as defined by the DEC 2010b) is a discrete group of individuals separated from other groups by at least 500 m. A sub-population is also defined in the same way, however is used when it cannot be determined whether groups of individuals are actually separated by at least 500 m because of lack of survey. A local population of a flora taxon is defined as one occurring within the Study area, with the local distribution of a flora taxon or VT defined as the known distribution within the Study area. The regional distribution refers to the total distribution of the taxon or VT in Western Australia, in particular in the Northern Sandplains Region.

The significance of a local population of a conservation significant flora taxon in relation to the regional conservation significance of the taxon depends upon the extent of the regional distribution of the taxon, the number of known populations of the taxon, and the location of local populations within the regional distribution of the taxon. The significance of the local population/s of conservation significant flora taxa within the Study area to the overall or regional conservation significance of the taxon has been determined using Table 7.

**Table 7: Significance of Local Populations to the Overall Conservation Significance of Taxon**

Ranking	Description
High	<ul style="list-style-type: none"> <li>Known range of taxon either entirely located within the Study Area, or within the Study Area and to a radius of &lt;5 km of the Study Area; and/or</li> <li>Taxon known from &lt;10 discrete populations, including within the Study Area; and/or</li> <li>Study Area populations extend the known regional distribution; and/or</li> <li>Taxon listed as T (DRF) in Western Australia, and/or Threatened under the EPBC Act</li> </ul>
Moderate	<ul style="list-style-type: none"> <li>Known range of taxon extends &lt;50 km; and/or</li> <li>Taxon known from 10 or more discrete populations, but &lt; 20 discrete populations; and/or</li> <li>Study Area may be on boundary of known regional distribution</li> </ul>
Low	<ul style="list-style-type: none"> <li>Known range of taxa extends &gt;50 km; and</li> <li>Taxon known from 20 or more discrete populations; and</li> <li>Study Area not on boundary of known regional distribution</li> </ul>

The local significance of VTs can be measured by the extent of the VT within the Study area, and the type and extent of landforms they are associated with. They may also be significant in being primary habitat for a particularly significant flora taxon that may be uncommon or restricted (e.g. T (DRF) and Priority flora, disjunct occurrence of a particular taxon).

Table 8 presents local conservation significance rankings of VTs in the Study area, based on these criteria, with '1' indicating the lowest conservation significance ranking, and '4' the highest.

**Table 8: Descriptions of Local Conservation Significance Rankings of Vegetation Types in the Study Area**

Local Conservation Significance Ranking	Description
1	<ul style="list-style-type: none"> <li>VT comprises &gt;10 % of the Study area; and</li> <li>Landform/soil type where VT occurs is locally common and widespread</li> </ul>
2	<ul style="list-style-type: none"> <li>VT comprises &lt;10 % of the Study area; and</li> <li>Landform/soil type where VT occurs is locally common and widespread</li> </ul>
3	<ul style="list-style-type: none"> <li>VT comprises &lt;10 % of the Study area; and</li> <li>Landform/soil type where VT occurs is locally uncommon and/or restricted</li> </ul>
4	<ul style="list-style-type: none"> <li>VT comprises &lt; 1 % of the Study area; and</li> <li>Landform/soil type where VT occurs is locally uncommon and/or restricted; and / or</li> <li>VT is habitat for taxa listed as T (DRF), or is habitat for 1 or more other taxa considered to be of high conservation significance (including, but not limited to, Priority flora taxa and potentially undescribed taxa) that is completely or predominantly restricted to the VT</li> </ul>

In terms of the regional conservation significance of VTs mapped within the Study area, the study of the NSSA for Tiwest and Iluka by Woodman Environmental (2009b, d) is the most detailed and up-to-date broad scale plant community mapping survey within the region available. This study is considered relevant to the Study area in providing regional context, as large areas of the Tathra vegetation system were mapped. Although the majority of the mapping of this system occurred near Eneabba, a small area of this system was mapped near the Study area.

However, no definite conclusions can be drawn as to the similarities of VTs mapped in the Study area to FCTs mapped in the NSSA without incorporation of floristic data from the Study area into an analysis with floristic data from the NSSA. As this is not part of the scope of this report, general comparisons have been made instead between VTs mapped in the Study area and FCTs mapped in the NSSA, including comparisons between general floristic, topographic and soil characters. This allows preliminary conclusions to be drawn regarding the regional conservation significance of VTs mapped in the Study area, however it is not possible to rank the significance of VTs in terms of their regional conservation significance in the same manner as conservation significant flora. The preliminary conclusions regarding the regional conservation significance of VTs within the Study area are discussed briefly in Section 4.2.4.

### 3.9 LIMITATIONS OF SURVEYS

Table 9 presents the limitations of the flora and vegetation survey of the Study Area in accordance with EPA Guidance Statement No. 51 (EPA 2004).

**Table 9: Limitations of the Flora and Vegetation Survey of the Study Area**

<b>Limitation</b>	<b>Comment</b>
Level of survey.	Level 2 Detailed Survey: A reconnaissance survey, including opportunistic recordings of flora taxa (particularly potentially conservation significant flora and introduced flora), was undertaken in Spring (September) 2011. The initial detailed survey commenced also in Spring (September) 2011, at the beginning of the usual peak flowering season in the Northern Sandplains Region, and extended through the Spring months to November 2011, capturing floristic data over the entire peak flowering season. Further survey was undertaken in September and October 2012. Survey to define previously recorded conservation significant flora populations, and to find new populations, was undertaken in 2012. Survey was not undertaken in any other season; however this is not expected to significantly affect recorded species richness of the Study area. Replicated quadrats were established in each plant community identified on VCL in the Study area, however were not established on private property because of access constraints.
Competency/experience of the consultant(s) carrying out the survey.	Senior personnel have had experience in conducting similar assessments, including in the Northern Sandplains Region, with mentoring given to less experienced botanists throughout the surveys.
Scope (floral groups that were sampled; some sampling methods not able to be employed because of constraints?)	All vascular groups that were present during the reconnaissance and detailed survey were sampled. No constraints prevented appropriate sampling techniques (quadrat establishment, foot transects) employed. Private property sampled in Spring 2012.

Limitation	Comment
Proportion of flora identified, recorded and/or collected.	High proportion of perennial vascular taxa recorded based on intensity and method of survey. High proportion of ephemeral vascular taxa recorded based on intensity and method of survey and high rainfall totals prior to commencement of survey. All vascular taxa recorded had at least 1 reference specimen collected, with specimens identified at the WAHerb.
Sources of information e.g. previously available information (whether historic or recent) as distinct from new data.	Sources include government databases (DEC, EPBC) and numerous unpublished reports in similar nearby areas. Good contextual information was available including other local studies by Woodman Environmental.
The proportion of the task achieved and further work which might be needed.	Level 2 survey complete, including specific searching for conservation significant flora in the Study area. Further survey to describe areas of remnant vegetation on private property was undertaken in Spring 2012.
Timing/weather/season/cycle.	Field survey conducted in Spring, corresponding with the optimum flowering period for the Northern Sandplains Region. Field survey conducted from September to November in 2011 and September to October 2012, with no data capture in other seasons; however this is not expected to significantly affect recorded species richness of the Study area. Peak flowering season generally considered to be good in 2011, with slightly below-average rainfall (340 mm compared to 387 mm on average) (Bureau of Meteorology 2012b) over the usual 'wet' Winter months (May-September). Rainfall poorer in 2012, with 202 mm recorded over May – September (below average) (Bureau of Meteorology 2012b).
Disturbances (e.g. fire, flood, accidental human intervention etc.), which affected results of survey.	Previous fire history of the Study area influenced patterns discernible from aerial photography and also existing structure and composition of the vegetation, however the time since the last fire (at least 5 years based on maturity of vegetation) meant that this did not significantly affect the survey results.
Intensity of survey.	Survey intensity adequate to identify floristic and structural groupings of terrestrial flora as required by a Level 2 survey, with replication of quadrats through plant community types and foot searching. Lower intensity of survey over areas where vehicular access was difficult. Specific searching for conservation significant flora undertaken in 2012, the method of which was agreed upon in consultation with the DEC .
Completeness and mapping reliability.	Survey of Study area considered complete in terms of mapping of plant communities on both VCL and private property. Mapping reliability good as high resolution aerial photography was used, 119 quadrats were established, and foot and vehicle transecting was employed, however fire history affected vegetation patterns discernible on aerial photography. Survey of Study area considered complete in terms of survey for conservation significant flora, in particular Threatened (T), and Priority 1 and 2 listed species.
Resources and experience of personnel.	Adequate resources including experienced field personnel and taxonomists with appropriate expertise in Northern Sandplains Region flora were utilised.
Remoteness and/or access problems.	Access to the Study area was considered mostly adequate, with access to Private Property gained for the 2012 survey.

## 4. RESULTS

### 4.1 FLORA OF THE STUDY AREA

A total of 535 discrete vascular flora taxa and 1 known hybrid were recorded within the Study area during survey in 2011 and 2012. These taxa represent 64 families and 196 genera. Of these, 464 were recorded during survey in 2011, with an additional 71 taxa recorded during the 2012 survey. The most well-represented families were Myrtaceae (80 taxa and 1 known hybrid), Fabaceae (65 taxa, including one introduced taxon), Proteaceae (57 taxa), Asteraceae (29 taxa, including four introduced taxa), Cyperaceae (26 taxa, including one introduced taxon), and Stylidiaceae (23 taxa).

All of the vascular plant taxa recorded during the survey were collected at least once and identified at the WAHerb. A full list of taxa is presented in Appendix G, with raw quadrat and site data and parameters presented in Appendix H.

#### 4.1.1 Conservation Significant Flora Taxa

A total of 30 confirmed and 2 probable conservation significant flora taxa are known from the Study area. This total includes the following taxa recorded in the Study area in 2011 and 2012:

- 3 confirmed taxa listed as T (DRF)
- 23 confirmed taxa listed as Priority flora
- 1 probable taxon listed as Priority flora
- 1 hybrid listed as Priority flora

The total above also includes a further 4 conservation significant flora taxa (one of which is a probable record), that have previous records within the Study area but were not recorded during either the 2011 or 2012 surveys. These records are from earlier surveys conducted by Woodman Environmental within the Study area (Woodman Environmental 2009a, d; 2010), or solely from the DEC's threatened flora databases (DEC 2011b). This total includes:

- 1 taxon listed as T (DRF) (*Eucalyptus leprophloia*)
- 3 taxa listed as Priority flora (including 1 probable) (*Banksia fraseri* ?var *crebra* (P3), *Guichenotia impudica* (P3) and *Schoenus griffinianus* (P3))

Several collections of flora potentially represent undescribed taxa and are also considered to be of conservation significance. These are discussed separately in Section 4.1.3.

Table 10 presents a list of conservation significant flora taxa recorded within Study area, including those recorded by Woodman Environmental (historical as well as recent), and records sourced from the DEC's threatened flora databases. Locations of conservation significant flora taxa recorded during surveys in 2011 and 2012 are presented in Appendix I. Locations of T (DRF) taxa and potentially undescribed taxa recorded in the Study area are presented on Figure 4, locations of Priority 1 and 2 taxa are presented on Figure 5, and Priority 3 and 4 taxa are presented on Figure 6. These

figures also present VT mapping of the Study area, which provides an indication of the preferred habitat of each taxon.

Table 10: Summary of Conservation Significant Taxa Known from the Study Area

Taxon	Conservation Code	Total Number of Locations in the Study Area	Number of Individuals Known in Study Area	VTs	Record Type*
<i>Acacia isoneura</i> subsp. <i>isoneura</i>	P3	1	1	5	2012
<i>Allocasuarina grevilleoides</i>	P3	37	1,997	7a, 7b, 8, 13a	2011; 2012
<i>Banksia fraseri</i> ?var. <i>crebra</i>	P3	1	Unknown	7b	2008
<i>Banksia scabrella</i>	P4	463	7,668	7a, 7b, 8, 10, 11, 12, 13a, 13b, 14, C	2008, 2009, 2011, 2012, DEC
<i>Beyeria gardneri</i>	P3	1	2	12	2012
<i>Calytrix chrysantha</i>	P4	1	30	7a	2011
<i>Eucalyptus abdita</i>	P2	6 (potentially 7)	12	1b, 8 (potentially also in 11)	2011, 2012, DEC
<i>Eucalyptus crispata</i>	T	3 (potentially 4)	18	8; 10	2011; 2012
<i>Eucalyptus leprophloia</i>	T	2	Unknown	8; C	DEC
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	P4	121	1,310	3, 7a, 7b, 8, 10, 11, 12, 13a	2009, 2011, 2012, DEC
<i>Eucalyptus macrocarpa</i> x <i>pyriformis</i>	P3	3	19	7b, 8, 11	2011, 2012
<i>Guichenotia impudica</i>	P3	1	Unknown	11	2008
<i>Haemodorum loratum</i>	P3	57	90	3, 7a, 7b, 8, 9, 10, 12, 13a, 13b	2011, 2012
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	P3	22	30	7a, 10, 13a, 13b	2011, 2012
<i>Lasiopetalum ogilvieanum</i>	P1	26	113	7a, 7b, 8, 13a	2011, 2012, DEC
<i>Malleostemon decipiens</i>	P1	2	300	4, 5	2012
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	P3	514	21,527	3, 7a, 7b, 8, 9, 10, 11, 12, 13a, 13b	2008, 2009, 2011, 2012, DEC

Taxon	Conservation Code	Total Number of Locations in the Study Area	Number of Individuals Known in Study Area	VTs	Record Type*
<i>Micromyrtus rogeri</i>	P1	504	17,174	1a, 1b, 3, 7a, 7b, 8, 9, 10, 11, 12, 13b, C	2008, 2009, 2011, 2012, DEC
<i>Paracaleana dixonii</i>	T (DRF)	174	263	7a; 7b; 8; 10; 11; 12; 13a	2011; 2012
<i>Persoonia filiformis</i>	P2	88	190	7a, 7b, 10, 13a	2009, 2011, 2012
<i>Persoonia rudis</i>	P3	17	18	7a, 7b, 8, 10, 11, 12, 13a	2011, 2012
<i>Schoenus badius</i>	P2	7	7^	7a, 10, 13b, 14	2011
<i>Schoenus griffinianus</i>	P3	1	1	13a	2009
<i>Stylidium drummondianum</i>	P3	433	9,294	1a, 1b, 7a, 7b, 8, 8D, 9, 10, 11, 13a, 13b, C	2008, 2009, 2011, 2012, DEC
? <i>Stylidium carnosum</i> subsp. Narrow leaves (J.A. Wege 490)	P1	1	1	10	2012
<i>Stylidium pseudocaespitosum</i>	P2	1	1	13a	2011
<i>Stylidium torticarpum</i>	P3	59	1,111	1a, 1b, 3, 4, 7b, 8, 9, C	2011, 2012, DEC
<i>Synaphea aephynsa</i>	P3	157	1,780	7a, 7b, 8, 9, 10, 12, 13a	2009, 2011, 2012, DEC
<i>Synaphea oulopha</i>	P1	146 (potentially 150)	846	1b, 7a, 7b, 8, 9, 10, 11, 13a, 13b	2009, 2011, 2012
<i>Thelymitra stellata</i>	T (DRF)	139 (potentially 144)	273	7a, 7b, 8, 11, 13a	2011, 2012
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	P3	8	221	4, 4D, 5, 7a	2012
<i>Verticordia luteola</i> var. <i>luteola</i>	P3	2	21	13a	2011

\*Note: Previous survey indicates records from surveys undertaken for Warrego Energy in 2008 (Woodman Environmental 2009a); 2011 (Woodman Environmental 2012a), and current surveys undertaken in 2012; previous surveys within the area by Woodman Environmental in 2009 (Woodman Environmental 2010), and the DEC's threatened flora databases.

^*Schoenus badius* was not counted at recorded locations, however is an annual species that is likely to be more abundant than indicated in Table 10.



### Threatened Flora Taxa

*Eucalyptus crispata* is a mallee to 7 m (DEC 2012a), and generally occurs in isolated clumps on breakaways and hills. This taxon occurs over a range of approximately 80 km, from near Three Springs in the north to Boothendarra in the south (DEC 2012b). There is an outlying record near Lancelin, however the locality details indicate that the record should be near Eneabba, and therefore the co-ordinates of this record are considered erroneous (DEC 2012b). There are 29 DEC records of this species, representing approximately 12 populations (DEC 2012b). Several of these populations are in secure conservation estate, including Wilson and Boothendarra Nature Reserves, however WAHerb data indicates that most populations consist of relatively few (generally less than 20) individuals. This species is listed as 'Endangered' in Western Australia, and as 'Vulnerable' under the Federal EPBC Act (DEC 2012e).

*E. crispata* (T) has been positively identified at three locations, and potentially identified (*Eucalyptus ?crispata*) at one other location within the Study Area during surveys in 2011 – 2012 (Figures 4.1, 4.3, 4.4; Appendix I). These represent 3 confirmed populations and 1 potential population. Approximately 18 individuals were recorded across all locations. The species could not be positively identified at the potential location due to the absence of fruiting material.

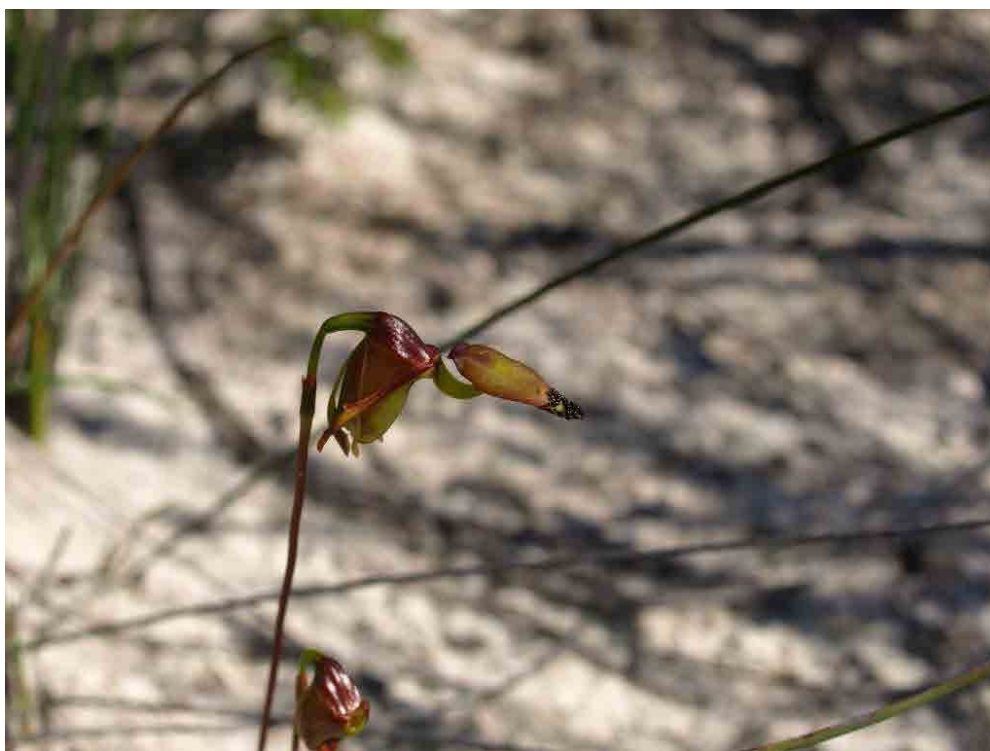
*Eucalyptus leprophloia* is a mallee to 8 m (DEC 2012a) that generally occurs on breakaways and hills or valleys associated with such features. It occurs in two disjunct areas over a range of approximately 120 km, from near Mingenew in the north to Boothendarra in the south (DEC 2012b). There are 27 DEC records of this species, representing approximately nine populations (DEC 2012b). One of these populations is in secure conservation estate in Boothendarra Nature Reserve. This species is listed as 'Endangered' in Western Australia, and as 'Endangered' under the Federal EPBC Act (DEC 2012e).

*E. leprophloia* (T (DRF)) has not been recorded by Woodman Environmental within the Study area. It is known from two DEC records, one from a specimen housed at the WAHerb, the other on the DEFL database (DEC 2011a; b). One location is located in a paddock east of Natta Road (south of Carey Road) (Figure 4.2); this location was inspected during surveys in 2012, and only *Eucalyptus todtiana* was found in this area. The other location is in remnant vegetation to the west of Natta Road. This area was inspected in 2011 and the species was not found. The location details recorded on the DEC database state that the location is in paddock near Natta Road, and therefore it is likely that both records are of the same plant (or group of plants), the locality details of which are erroneous. It is considered possible but unlikely that this species occurs in the Study area.

*Paracaleana dixonii* (T) is a tuberous, perennial orchid to 0.2 m high (DEC 2012a) (see Plate 1). It is found in small isolated colonies in sandy soils, occasionally over laterite, over a range of approximately 180 km, from south of Dongara in the north to Moore River National Park in the south (DEC 2012b). There are 38 DEC records of this species, representing approximately 21 populations (DEC 2012b). A number of these populations are in secure conservation estate, including Lesueur and Moore River National Parks and Coomallo and South Eneabba Nature Reserves. This

species is listed as ‘Vulnerable’ in Western Australia and as ‘Endangered’ under the Federal EPBC Act (DEC 2012e).

*Paracaleana dixonii* (T) has been recorded at 174 point locations in the Study area during surveys in 2011 - 2012, representing approximately 30 sub-populations (Figures 4.1 – 4.4; Appendix I). A total of 263 individuals were recorded across all populations. The recording of this species in the Study area represents the northern-most known collections, extending the known range of this species by approximately 10 km. Although this species was recorded in a variety of VTs, it was predominantly recorded in VT 13a (70 locations), followed by VTs 10 and 7b (39 and 29 locations respectively).



**Plate 1:** *Paracaleana dixonii* (T) (Photo: Woodman Environmental)

*Thelymitra stellata* (T) is a tuberous, perennial orchid to 0.25 m high (DEC 2012a) (see Plate 2). It is found in small isolated colonies on lateritic soils, often on breakaways and hills. *T. stellata* occurs over a range of approximately 450 km, from Three Springs in the north to near Darkan in the south (DEC 2012b). There are also outlying records to the east as far as Holt Rock, east of Lake Grace. There are 53 DEC records of this species, representing approximately 42 populations (DEC 2012b). A number of these populations are in secure conservation estate, including Lesueur National Park and Coomallo Nature Reserve, however WAHerb data indicates that most populations consist of relatively few (generally less than 20) individuals, and many may no longer exist. This species is listed as ‘Endangered’ in Western Australia, and as ‘Endangered’ under the Federal EPBC Act (DEC 2012e).

*Thelymitra stellata* (T) was recorded at 139 point locations in the Study area in 2011 – 2012, with a further five locations potentially also representing this species. A total of 18 (possibly 20) sub-populations have been recorded in the Study area (Figure 4.1 – 4.4; Appendix I). A total of 266 individuals were recorded, with a further seven

individuals being identified only to *Thelymitra ?stellata* (flowering material not sufficient for complete identification). The records of this species in the Study area represent the northern-most known collections, extending the known range of this species by approximately 10 km. *Thelymitra stellata* was recorded predominantly in VT 8, with 129 locations in this VT.



Plate 2: *Thelymitra stellata* (T (DRF)) (Photo: Woodman Environmental)

### Priority 1 Flora Taxa

*Lasiopetalum ogilvieanum* (P1) is a shrub to 1.5 m high (DEC 2012a). It is found on undulating plains and lateritic rises over a range of approximately 85 km, from near Burma Road Nature Reserve in the north to near Three Springs in the south (DEC 2012b). There are 18 DEC records of this species, representing approximately seven populations (DEC 2012b). No populations occur in secure conservation estate.

This species was recorded at 26 point locations in the Study area during surveys in 2011 and 2012, with a total of 113 individuals recorded. It was known previously from the Study area, being represented by several records from the DEC's threatened flora databases (DEC 2011b). In total these records represent approximately eight sub-populations (Figure 5.3; Appendix I). Populations of this taxon are concentrated in the south-western corner of the Study area, mainly in VT 13a (15 records).

*Malleostemon decipiens* (P1) occurs in the Mingenew area, mainly shallow soils on ironstone or granite breakaways (DEC 2012a). It is known from a total of 15 DEC records, including 11 collections housed in the WAHerb, representing approximately 10 populations, and has a range of approximately 40 km (DEC 2012b). None of the populations appear to be in secure conservation tenure.

Two locations of this species were recorded during surveys in 2012, both in remnant vegetation in private property, representing two sub-populations (Figures 5.1, 5.2;

Appendix I), in VTs 4 and 5. A total of 300 individuals were recorded, 100 at one location, and 200 at the other.

*Micromyrtus rogeri* (P1) is a shrub to 0.4 m high (DEC 2012a). It is found on lateritic rises and breakaways, and has a disjunct range over a distance of approximately 170 km, being known from two general areas: from near Three Springs in the north, and near Mogumber in the south (DEC 2012b). There are 13 DEC records of this species, representing approximately seven populations (DEC 2012b). No populations occur in secure conservation estate.

This species is known from a total of 504 point locations within the Study area, of which 482 point locations were recorded during surveys in 2011 – 2012. A total of 17,174 individuals have been recorded. It was previously recorded in the Study area, being represented by several records from the DEC's threatened flora databases (DEC 2011b), and a number of records from Woodman Environmental (2010). In total these records represent approximately 13 sub-populations (Figure 5.1 – 5.4; Appendix I). Populations of this taxon are located mainly in the north and eastern areas of the Study area, and are concentrated in VT 8 (404 records).

*Stylidium carnosum* subsp. Narrow leaves (J.A. Wege 490) (P1) is known from five collections housed at the WAHerb, taken from a range of 155 km, from approximately 35 km south-east of Dongara to south-east of Dandaragan (DEC 2012a;b). This species has been previously collected from areas in the vicinity of the Study area. Collections housed at the WAHerb have been taken from areas of grey to white sand, occasionally over laterite.

?*Stylidium carnosum* subsp. Narrow leaves (J.A. Wege 490) (P1) was recorded within the Study area at one location during surveys in 2012, in VT 10. A single individual was recorded at this location. The flowering spike was absent from the collection, and therefore an incomplete identification has been assigned to this entity at this time.

*Synaphea oulopha* (P1) is a compact shrub to 0.2 m high (DEC 2012a). It is found on lateritic rises and breakaways over a range of approximately 35 km, from near Three Springs in the north to near Eneabba in the south (DEC 2012b). There is an outlying record near Beekeepers Nature Reserve west of the Brand highway, however the locality details indicate that the record should be east of the Brand Highway near the Arrowsmith River, and therefore the co-ordinates of this recorded are considered erroneous (DEC 2012b). There are 14 DEC records of this species, representing approximately seven populations (DEC 2012b). Several populations are in secure conservation estate in Wotto and Wilson Nature Reserves.

This species was recorded at 146 point locations in the Study area during surveys in 2011 – 2012, with a further four potential locations represented by collections with incomplete identifications due to inadequate material (Woodman Environmental 2009a). In total 846 individuals have been recorded in the Study area, including five individuals attributable to *Synaphea ?oulopha*. Approximately 17 sub-populations of this species have been recorded within the Study area (Figures 5.1 – 5.4; Appendix I), with most records being located in VTs 8 and 7a (58 and 50 locations respectively).

#### Priority 2 Flora Taxa

*Eucalyptus abdita* (P2) is a mallee to 3 m high (DEC 2012a). It is found on lateritic rises and breakaways over a range of approximately 150 km, from near Three Springs in the north to near Dandaragan in the south (DEC 2012b). There are 18 DEC records of this species, representing approximately seven populations (DEC 2012b). One population is in secure conservation estate in Lesueur National Park.

This species was recorded at six confirmed and one probable point locations in the Study area during surveys in 2011 - 2012, and has also previously been recorded from the Study area, being represented by several records from the DEC's threatened flora databases (DEC 2011b). The probably location was recorded in 2012, and is a result of incomplete identification. These records represent approximately three sub-populations (Figure 5.4; Appendix I). The majority of locations are located in VT 8 (five locations). Approximately 12 individuals were recorded across all locations.

*Persoonia filiformis* (P2) is a shrub to 0.4 m high (DEC 2012a). It is found in yellow or grey sandy soils on undulating plains over a range of approximately 110 km, from near Dongara in the north to near Badgingarra in the south (DEC 2012b). There are 14 DEC records of this species, representing approximately 11 populations (DEC 2012b). Several populations are in secure conservation estate, including in Lesueur National Park, and Coomallo and South Eneabba Nature Reserves.

This species was recorded at 88 point locations in the Study area during surveys in 2011 - 2012, and has also previously been recorded from the Study area, being represented by records from Woodman Environmental (2009a). A total of 190 individuals were recorded during these surveys. These records represent approximately eight sub-populations (Figure 5.3, 5.4; Appendix I). *Persoonia filiformis* was recorded primarily in VT 10 (55 locations).

*Schoenus badius* (P2) is a slender, annual grass-like herb to 0.12 m high (DEC 2012a). It is found in grey sandy soils on undulating plains and in moist areas over a range of approximately 240 km, from near Isseka in the north to near Cataby in the south (DEC 2012b). However, the record near Cataby is likely to represent the similar *S. pennisetis* based on Woodman Environmental field observations, and therefore this species is likely to be restricted to between Isseka and near Dongara. There are three DEC records of this species, representing three populations (DEC 2012b). No populations are in secure conservation estate.

This species was recorded at seven point locations in the Study area in 2011, with no locations recorded during surveys in 2012. These represent approximately five populations (Figure 5.3, 5.4; Appendix I). Individuals were not counted, however it was noted as being common at most locations. This species was most commonly recorded in VT 14 (four locations).

*Stylidium pseudocaespitosum* (P2) is a rosetted, perennial herb to 0.3 m high (DEC 2012a). It is found in sandy soils, usually over laterite on rises and breakaways over a range of approximately 110 km, from near Burma Road Nature Reserve in the north to near Three Springs in the south (DEC 2012b). There are 24 DEC records of this species, representing approximately 14 populations (DEC 2012b). Several populations are in secure conservation estate in Burma Road Nature Reserve.

This species was recorded at a single point location in the Study area in 2011 (Figure 5.3; Appendix I), with a single individual recorded. This location is in VT 13a.

### Priority 3 Flora Taxa

*Acacia isoneura* var. *isoneura* (P3) is an erect open shrub, growing from 0.5 – 3 m in height (DEC 2012a). It is found on yellow-brown sand on flats and low rises, over a range of approximately 60 km, from east of Dongara in the north, to west of Three Springs in the south (DEC 2012b). There are 11 DEC records of this species, representing approximately nine populations (DEC 2012b). There is one population in secure conservation estate, within the Mingenew Nature Reserve.

One location of this species was recorded during surveys undertaken in 2012, in VT 5 (Figure 6.5; Appendix I). The number of individuals in this location was not recorded; a single individual only may have been present. Although there are no previously known recordings of this species from lands surrounding the Study area, the Study area is still within its known range, with collections taken from approximately 20 km to the north housed in the WAHerb.

*Allocasuarina grevilleoides* (P3) is a low shrub to 0.4 m high (DEC 2012a). It is found in sandy soils over laterite on rises over a range of approximately 250 km, from near Eneabba in the north to near Perth in the south (DEC 2012b). The collections from the Study area represent a range extension for this species. There are 28 DEC records of this species, representing approximately 13 populations (DEC 2012b). Several populations are in secure conservation estate, including within Tathra, Lesueur and Wandoo National Parks.

This species was recorded at 37 point locations in the Study area during surveys in 2011 and 2012, representing approximately five sub-populations (Figure 6.3, 6.4; Appendix I). Approximately 1,997 individuals were recorded during surveys in 2001 and 2012. The majority of locations are present in VTs 8 and 7a (13 and 11 locations respectively). The records of this species in the Study area represent the northernmost known collections, extending the previous known range of this species by approximately 40 km.

*Banksia fraseri* var. *crebra* (P3) is a low spreading shrub to 0.4 m (DEC 2012a) that generally occurs on lateritic hills and rises over a range of approximately 110 km, from near Dongara in the north to near Jurien Bay in the south (DEC 2012b). There are nine DEC records of this taxon, representing approximately eight populations (DEC 2012b). No populations occur in secure conservation estate.

*Banksia fraseri* var. ?*crebra* (P3) was previously recorded in the Study area by Woodman Environmental in 2008 at one location (Woodman Environmental 2009a) (Figure 6.3). It was noted that insufficient material was present to confirm whether the collection represented *B. fraseri* var. *crebra*. During the 2011 survey of the Study area, a collection was made that was identified as *B. fraseri* var. ?*fraseri*, again with insufficient material present to confirm the identity of the collection. It is expected that, given the high number of locations in which *B. fraseri* var. ?*fraseri* was recorded in 2011, the collection from 2008 is unlikely to represent *B. fraseri* var. *crebra* (P3), however further material is required to confirm this. This location is present in VT 7b

(Appendix I). It is therefore considered possible but unlikely that this species occurs in the Study area.

*Beyeria gardneri* (P3) is a shrub to 0.5 m in height, occurring on yellow sand (DEC 2012a). It is known over a range of approximately 360 km, from Nerren Nerren in the north to Watheroo Nature Reserve in the south (DEC 2012b). There are 25 DEC records of this species, representing approximately 19 populations. Several populations are known from secure conservation estate, including Kalbarri National Park, Watheroo National Park, Marchagee Nature Reserve and Indarra Nature Reserve.

This species was recorded in the Study area at a single location for the first time during surveys in 2012 in VT 12. A total of two individuals were recorded at this location (Figure 6.2; Appendix I). The Study area is in the known range of this species.

*E. macrocarpa x pyriformis* is a hybrid between *E. macrocarpa* and *E. pyriformis*. It is a mallee to 6 m (DEC 2012a), occurring on hills, ridges and plains over a range of approximately 340 km, from near Mingenew in the north to Cunderdin in the south (DEC 2012b). There are 53 DEC records of this species, representing approximately 11 populations (DEC 2012b). No populations appear to be in secure conservation estate.

The presence of *E. macrocarpa x pyriformis* (P3) has been positively identified during the 2012 survey. This species was recorded at 3 point locations during surveys in 2011 – 2012, with a total of approximately 19 plants recorded. The three locations were recorded in three different vegetation types, 7b, 8 and 11 (Figure 6.3).

*Guichenotia impudica* (P3) is a shrub to 1 m (DEC 2012a) that has a disjunct distribution over a range of approximately 630 km, from Kalbarri National Park to near Northampton in the north, and from Wongan Hills to Corrigin in the south (DEC 2012b). It generally occurs on lateritic soils. There are 26 DEC records of this species, representing approximately 11 populations (DEC 2012b). There are populations in secure conservation estate in Kalbarri National Park and Ogilvie Nature Reserve.

*Guichenotia impudica* (P3) was not recorded during the surveys conducted in 2011 or 2012, however was previously recorded within the Study area by Woodman Environmental (2009a) at a single location (in VT 11) (Figure 6.4). During both the 2011 and 2012 surveys of the Study area, collections were made of the closely related *G. micrantha*; *Guichenotia sarotes* was also collected in 2012. It is therefore considered possible that the collection of *G. impudica* made by Woodman Environmental (2009a) may have been misidentified. However, this cannot be confirmed without collection of further material at the location of *G. impudica*. It is therefore considered possible but unlikely that this species occurs in the Study area.

*Haemodorum loratum* (P3) is a bulbaceous, perennial herb to 1.2 m high (DEC 2012a). It is found in sandy soils on plains and rises over a range of approximately 350 km, from near Eneabba in the north to near Yarloop in the south (DEC 2012b). Collections within the Study area represent a range extension for this species. There are 36 DEC records of this species, representing approximately 19 populations (DEC

2012b). Several populations are in secure conservation estate, including within Moore River and Lesueur National Parks, and Coomallo and Bullsbrook Nature Reserves.

This species was recorded at 57 point locations in the Study area during surveys in 2011 and 2012, representing approximately 19 sub-populations (Figure 6.2 – 6.4; Appendix I). A total of 90 individuals were recorded during surveys in 2011 – 2012, located mainly on VTs 10 and 7a (23 and 13 locations respectively). The records of this species in the Study area represent the northern-most known collections, extending the previous known range of this species by approximately 45 km.

*Hemiandra* sp. Eneabba (H. Demarz 3687) (P3) is a shrub to 0.9 m high (DEC 2012a). It is found in sandy soils on plains and rises over a range of approximately 60 km, from south of Dongara in the north to south of Eneabba in the south (DEC 2012b). There are 23 DEC records of this species, representing approximately 22 populations (DEC 2012b). No populations appear to be in secure conservation estate.

This species was recorded at 22 point locations in the Study area during surveys in 2011 - 2012, representing approximately 11 sub-populations (Figure 3; Appendix I). A total of 30 individuals were recorded across all locations. These records are primarily located in VTs 7a and 13a (12 and 6 locations respectively).

*Mesomelaena stygia* subsp. *deflexa* (P3) is a small, tufted perennial sedge to 0.5 m high (DEC 2012a). It is found in sandy soils over laterite on plains and rises over a range of approximately 70 km, from south of Dongara in the north to south of Eneabba in the south (DEC 2012b). There are 19 DEC records of this taxon, representing approximately 11 populations (DEC 2012b). Several populations are in secure conservation estate in South Eneabba Nature Reserve.

This taxon is known from 514 point locations within the Study area, of which 503 were recorded during surveys in 2011 – 2012. This taxon was also previously recorded in the area on the DEC's threatened flora databases (DEC 2011b). These locations represent approximately 16 sub-populations (Figure 3; Appendix I), spread throughout the Study area, however in dense numbers in the south-eastern side of the Study area (Figures 6.1 – 6.4; Appendix I). The majority of locations were recorded in VT 8 (220 locations), with VTs 11 and 10 also well represented (81 and 76 locations respectively). This species is generally abundant where it is present, and a total of 21,527 individuals have been recorded within the Study area.

*Persoonia rudis* (P3) is a shrub to 1 m high (DEC 2012a). It is found in sandy soils, often over laterite, on plains and rises over a range of approximately 270 km, from south of Dongara in the north to near Bullsbrook in the south (DEC 2012b). There are 48 DEC records of this species, representing approximately 32 populations (DEC 2012b). Several populations are in secure conservation estate in Alexander Morrison and Lesueur National Parks, and Boonanarring and South Eneabba Nature Reserves.

This species was recorded at 17 point locations in the Study area during surveys in 2011 - 2012, representing approximately 14 sub-populations (Figures 6.1 – 6.4; Appendix I). A total of 18 individuals have been recorded, within seven different VTs; however, VTs 13a and 10 were the most well represented (a total of 6 and 5 locations respectively).



*Schoenus griffinianus* (P3) is a small, tufted perennial sedge to 0.1 m (DEC 2012a) that generally occurs in sandy soils over a range of approximately 370 km, from near Geraldton in the north to near Perth in the south (DEC 2012b). There are 40 DEC records of this taxon, representing approximately 21 populations (DEC 2012b). Several populations are in secure conservation estate, including in Alexander Morrison National Park and South Eneabba Nature Reserve.

*Schoenus griffinianus* (P3) was not recorded during this survey, however was previously recorded within the Study area by Woodman Environmental (2009a) at a single location (Figure 6.2) in VT 13a.

*Stylidium drummondianum* (P3) is a rosetted, perennial herb to 0.2 m high (DEC 2012a). It is found in sand or clay over laterite on rises and breakaways over a range of approximately 170 km, from near Northampton in the north to near Eneabba in the south (DEC 2012b). There are 30 DEC records of this species, representing approximately 14 populations (DEC 2012b). Several populations are in secure conservation estate in South Eneabba and Wilson Nature Reserves.

This species is known from 433 point locations in the Study area, and has also previously been recorded from the Study area, represented by a number of records from Woodman Environmental (2009a; 2010), and a number of records from the DEC's threatened flora databases (DEC 2011b). These records represent sub-21 populations (Figures 6.1 – 6.4; Appendix I). The majority of locations were recorded in VT 8 (263 locations), with 74 locations also recorded in VT 7a. As with *Mesomelaena stygia* subsp. *deflexa*, numerous individuals were recorded at most locations, with 9,294 individuals recorded within the Study area.

*Stylidium torticarpum* (P3) is a caespitose, perennial herb to 0.25 m high (DEC 2012a). It is found in clay over laterite at the base of breakaways and near creeklines over a range of approximately 315 km, from south of Kalbarri in the north to near Dandaragan in the south (DEC 2012b). There are 42 DEC records of this species, representing approximately 33 populations (DEC 2012b). Several populations are in secure conservation estate in Lesueur National Park, and Coomallo, South Eneabba, Wotto and Wilson Nature Reserves.

This species is known from a total of 59 point locations in the Study area, being recorded during surveys in 2011 – 2012, and a previous location on the DEC's threatened flora databases (DEC 2011b). These records represent appropriately 12 sub-populations (Figure 6.1 – 6.4; Appendix I). This species was recorded in a variety of VTs, however it was predominantly recorded in VT 8 (28 locations). Although numbers of individuals were not recorded at most locations in 2011, 1,111 individuals have been recorded in the Study area, and it was noted as being common at a number of locations.

*Synaphea aephynsa* (P3) is a tufted shrub to 0.3 m high (DEC 2012a). It is found in lateritic soils over a range of approximately 330 km, from near Three Springs in the north to west of Beverly in the south (DEC 2012b). There are 46 DEC records of this species, representing approximately 32 populations (DEC 2012b). Several populations are in secure conservation estate, including in Wandoo and Tathra National Parks, and Coomallo, South Eneabba and Wotto Nature Reserves.

This species is known from 157 point locations in the Study area, recorded during surveys in 2011 - 2012, and also previously been recorded from the Study area, being represented by a record from the DEC's threatened flora databases (DEC 2011b). These locations represent 10 sub-populations (Figures 6.1 - 6.4; Appendix I). A total of 1,780 individuals were recorded in 2012; no data relating to number of individuals was recorded in 2011, however at the time it was noted as being uncommon at most locations. *Synaphea aephyrsa* (P3) was recorded predominantly in VTs 7a and 8 (81 and 42 locations respectively).

*Thryptomene* sp. Mingenew (Diels & Pritzel 332) (P3) is a shrub to 0.6 m high, occurring on yellow sands and loam (DEC 2012a). It is relatively restricted in range, occurring over 60 km between Milo and Depot Hill to the west and north-west of Mingenew respectively, and west of Three Springs to the south (DEC 2012b). There are 32 records of this species on the DEC databases, representing approximately 18 populations. One of these populations is located on Crown Reserve A2360 (Depot Hill Reserve).

A total of eight locations of this species were recorded during surveys in 2012, representing seven sub-populations (Figures 6.1 – 6.2). They were all located in remnant bushland on private property. A total of 221 individuals were recorded. This species was mainly recorded in VT 4 (five locations).

*Verticordia luteola* var. *luteola* (P3) is a shrub to 1.4 m high (DEC 2012a). It is found in grey sand, sometimes with gravel on undulating plains and rises over a range of approximately 110 km, from near Eradu in the north to near Three Springs in the south (DEC 2012b). There are 25 DEC records of this taxon, representing approximately 16 populations (DEC 2012b). No populations appear to be in secure conservation estate. Although 1 record occurs in Beekeepers Nature Reserve, the locality details indicate that it occurs further to the north-east (DEC 2012a), and hence the co-ordinates of this record are considered erroneous.

This taxon was recorded at 2 point locations in the Study area in 2011, representing 1 population (Figure 6.3; Appendix I), in VT 13a. A total of 21 individuals were recorded. No further individuals of this species were recorded during surveys in 2012.

#### Priority 4 Flora Taxa

*Banksia scabrella* (P4) is a much-branched shrub to 2 m high (DEC 2012a). It is found in sandy soils, sometimes with laterite, on sandplains over a range of approximately 110 km, from near Geraldton in the north to near Three Springs in the south (DEC 2012b). There are 45 DEC records of this species, representing approximately 39 populations (DEC 2012b). Several populations are in secure conservation estate in Burma Road Nature Reserve.

This species is known from a total of 463 point locations in the Study area, from surveys conducted in the area in 2008, 2009, 2011 and also known from records on the DEC databases (DEC 2011b). These records represent approximately 26 sub-populations (Figure 6.1 – 6.4; Appendix I). A total of 7,668 individuals have been recorded in the Study area, and it was noted as being relatively common at most

locations. It was predominately recorded in VT 13a (168 locations), and also in VTs 10, 7a, 7b and 13b (72, 66, 52 and 50 locations recorded respectively).

*Calytrix chrysantha* (P4) is a shrub to 1.3 m high (DEC 2012a). It is found in sandy soils, on flats and in moist areas over a range of approximately 110 km, from near Morawa in the north to near Jurien Bay in the south (DEC 2012b). There are 43 DEC records of this species, representing approximately 16 populations (DEC 2012b). Several populations are in secure conservation estate, including in Coomallo, Lake Logue and South Eneabba Nature Reserves.

This species was recorded at a single point location in the Study area during the surveys in 2011 in VT 7a (Figure 6.3; Appendix I), with approximately 30 individuals noted.

*Eucalyptus macrocarpa* subsp. *elachantha* (P4) is a sprawling mallee to 4 m high (DEC 2012a). It is found in sandy soils over laterite on undulating plains, hills and breakaways over a range of approximately 240 km, from near Burma Road Nature Reserve in the north to near Regans Ford in the south (DEC 2012b). There are 67 DEC records of this species, representing approximately 41 populations (DEC 2012b). One population is in secure conservation estate in South Eneabba Nature Reserve.

This species is known from 121 point locations in the Study area, during surveys in 2009, 2011 and 2012, and has also previously been recorded from the Study area, being represented by a record from the DEC's threatened flora databases (DEC 2011b). These records represent approximately 19 sub-populations (Figure 6.1 – 6.4; Appendix I). A total of 1,310 individuals have been recorded across all of these populations. It was recorded over a variety of VTs, however VTs 10 and 7a recorded the highest number of locations (35 and 34 locations respectively).

#### 4.1.2 Distribution Extensions and Distribution Gaps

Table 11 presents taxa where the collections from the survey for the Project in 2011 and 2012 represent significant extensions to the known distribution of such taxa, or otherwise fill gaps within the known distribution of such taxa, according to NatureMap (DEC 2012b).

**Table 11: Taxa Where Collections Represent Extensions to the Known Distribution of these Taxa, or Fill Distribution Gaps (DEC 2012b)**

<b>Taxon</b>	<b>Description</b>
<i>Allocasuarina grevilleoides</i> (P3)	Extension of known distribution to the north
<i>Banksia bipinnatifida</i> subsp. <i>multifida</i>	Extension of known distribution to the north
<i>Cryptandra intermedia</i>	Large extension of known distribution to the north
<i>Dampiera alata</i>	Large extension of known distribution to the north
<i>Dampiera juncea</i>	Extension of known distribution to the north
<i>Dichopogon preissii</i>	Extension of known distribution to the north
<i>Haemodorum loratum</i> (P3)	Extension of known distribution to the north
<i>Lobelia rarifolia</i>	Collection fills a gap within the known distribution
<i>Paracaleana dixonii</i> (T (DRF))	Extension of known distribution to the north

<b>Taxon</b>	<b>Description</b>
<i>Platysace trachymenioides</i>	Extension of known distribution to the west
<i>Platysace xerophila</i>	Collection fills a gap within the known distribution
<i>Schoenus andrewsii</i>	Collection fills a gap within the known distribution
<i>Schoenus minutulus</i>	Extension of known distribution to the north
<i>Stenanthemum ?tridentatum</i>	Large extension of known distribution to the north (pending collection of flowering material)
<i>Stirlingia simplex</i>	Extension of known distribution to the north
<i>Stylidium eriopodum</i>	Extension of known distribution to the north
<i>Tetratheca paucifolia</i>	Extension of known distribution to the north
<i>Thelymitra benthamiana</i>	Large extension of known distribution to the north
<i>Thelymitra stellata</i> (T (DRF))	Extension of known distribution to the north
<i>Trichoclina spathulata</i>	Extension of known distribution to the north-west
<i>Waitzia suaveolens</i>	Extension of known distribution to the north

#### 4.1.3 Other Flora of Interest

A collection of a *Eucalyptus* (*Eucalyptus* sp. (unidentified 2)) made in 2011 could not be identified because of the absence of appropriate material. The collection apparently possessed fruits that did not match any known taxa of *Eucalyptus* from Western Australia, however these may represent galled fruits (resulting from invasion by insects), as no seeds could be found within the fruits. Despite searching, no additional locations of this species were recorded in 2012, and no additional flowering or fruiting material was available at that time. Further investigation of this entity is required, including collection of additional material (as it becomes available), as it may yet represent an undescribed taxon of conservation significance. This entity was rare and restricted in the Study area, with two individuals being recorded from a single location in a small area of VT 11 (Figure 4.4).

Four collections that have been identified to *Cryptandra intermedia* (atypical variant) were made in 2012. Typical *Cryptandra intermedia* is known from 80 km south of the Study area, which represents a large range extension for this species. This variant was recorded at six locations in the Study area (Figures 4.1, 4.3; Appendix I). Further investigative work on this taxon will be required to determine if it is indeed this species, or an undescribed taxon.

A single collection of a *Leucopogon* (*Leucopogon* sp.) was collected in 2012. This collection was examined by *Leucopogon* expert Mike Hislop at WAHerb, who determined that it has affinities with *Leucopogon* sp. Coomallo (R. J. Cranfield 1457), however may represent an undescribed taxon in its own right. Flowering material is required to determine this entity's taxonomic and conservation status. The location of this entity is presented on Figure 4.1 (Appendix I).

A collection identified as *Acacia ?idiomorpha* was made in the Study area in 2011. This collection is unusual in that it is glabrous with scarcely undulate phyllodes. Additional material, including flowering or fruiting material, is required to accurately determine the identity of this collection and its conservation significance. Surveys in 2012 did not obtain such flowering and/or fruiting material. This entity was rare and restricted in the Study area. The location of this entity is presented on Figure 4.1 (Appendix I).

Collections of a *Dampiera* (*D. teres* (broad-leaf variant)) was made in the Study area both in 2011 and 2012 that resembles *D. teres*, however it has flat rather than terete leaves. Typical *D. teres* with terete leaves was also collected from the Study area. Other collections of this entity are lodged under *D. teres* at the WAHerb (M. Hislop pers. comm.), and therefore it is unlikely that this taxon is of conservation significance. This entity was common in the Study area.

Collections of *Stenanthemum* aff. *notiale* subsp. *notiale* were made in both 2011 and 2012, with specimens having teeth either side of the apical point which is not present in true *S. notiale* subsp. *notiale*. However, there are specimens showing apical teeth lodged under *S. notiale* subsp. *notiale* in the WAHerb, and therefore it is considered that this taxon is unlikely to be of conservation significance.

A collection of *Schoenus* sp. nov was collected in 2011; it was again targeted for survey in 2012, and has subsequently been identified as *Schoenus minutulus*, which is a species not of listed conservation significance. However, the collection represents a range extension for this taxon.

Two separate collections that were identified as *Melaleuca leuropoma* based on a published *Melaleuca* key were made in the Study area in 2011, and again in 2012. One collection (*M. leuropoma*) represents a low, multi-stemmed lignotuberous shrub with yellow flowers and relatively short leaves, while the second collection represents a taller, single-stemmed non-lignotuberous shrub with purple flowers and longer leaves, as well as apparently larger fruits. While it is clear that these collections represent distinct taxa, a detailed taxonomic revision of *M. leuropoma* is required to determine the number and rank of any infra-taxa, and their conservation significance. Both taxa were common in the Study area.

The taxonomy of *Lepidosperma* is currently under review, with many new taxa known to exist, however not formally listed as distinct taxa (DEC 2012a). Several collections of *Lepidosperma* made from the Study area could not be matched to any known taxa with certainty. It is not expected that any of the collections from the Study area are of conservation significance, as taxa collected in the Study area were relatively common and widespread.

#### 4.1.4 Introduced Taxa

A total of 22 introduced flora taxa were recorded in the Study area, as listed in Table 12. Locations of each of these taxa are presented in Appendix I, and presented on Figure 7.

One species recorded is listed as a Declared Pest under the BAM Act (Department of Agriculture and Food 2013), however not for the shires within which the Study area is contained. None of the introduced species are listed as Weeds of National Significance (Australian Weeds Committee 2012). Table 12 also presents ratings for each introduced taxon recorded in the Study area under the Environmental Weed Strategy for Western Australia (see Section 2.4; Appendix E). A number of locations of introduced taxa were associated with areas of *Eucalyptus accedens*, and relatively moist sites.

Table 12: Summary of Introduced Taxa Known from within the Study area

Taxon	Number of Locations in Study Area	Vegetation Types	Environmental Weeds Rating (CALM 1999)
<i>Arctotheca calendula</i>	10	1a, 1b, 4, 4D, 10, 14,	Moderate
<i>Avena barbata</i>	2	4D	Moderate
<i>Brassica tournefortii</i>	2	4	High
<i>Briza maxima</i>	4	4	Moderate
<i>Bromus diandrus</i>	2	4, 4D	High
<i>Cuscuta epithymum</i>	1	4	Moderate
<i>Echium plantagineum</i>	3	4, 4D, PC1D	TBA
<i>Ehrharta brevifolia</i>	1	1a	Moderate
<i>Ehrharta calycina</i>	1	1a	High
<i>Ehrharta longiflora</i>	6	4, 5, 7a	Moderate
<i>Erodium cicutarium</i>	4	4, 4D, 6	Moderate
<i>Hypochaeris glabra</i>	14	1a, 1b, 4, 5, 6, 10, 13b, 14	Moderate
<i>Isolepis marginata</i>	1	1a	Not assessed
<i>Lysimachia arvensis</i>	4	1b, 4, 6	TBA
<i>Monoculus monstrosus</i>	1	4D	Mild
<i>Parentucellia latifolia</i>	3	1a, 4, 4D	Moderate
<i>Pentameris airoides</i> subsp. <i>airoides</i>	10	1a, 1b, 4, 6, 8, 13b	Moderate
<i>Petrorhagia dubia</i>	1	4D	Mild
<i>Trifolium campestre</i> var. <i>campestre</i>	1	6	Moderate
<i>Ursinia anthemoides</i>	10	1a, 4, 5, 7a, 14	Moderate
<i>Vulpia myuros</i>	9	4, 4D, 6, 11, 14	Moderate
<i>Wahlenbergia capensis</i>	2	1a, 13a	Moderate

*Arctotheca calendula* (Cape Weed) is a decumbent, annual herb to 0.3 m high (DEC 2012a). It is a widespread weed of roadsides, agricultural land and other disturbed sites throughout the south-west of Western Australia, and is rapidly increasing in the arid zone (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). This species is rated as having a High ecological impact and Rapid rate of dispersal (DEC 2008). *A. calendula* was recorded at 10 locations in the Study area in 2011 and 2012. The majority of locations were associated either with remnant bushland on private property, or in the vicinity of tracks and other disturbed areas (Figures 7.1, 7.3, 7.4; Appendix I).

*Avena barbata* (Bearded Oat) is an erect annual grass to 1 m in height (DEC 2012a). It is found throughout the entire south-west of Western Australia in uncropped situations (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). This species is rated as having a High ecological impact and Rapid rate of dispersal (DEC 2008). *A. barbata* was recorded at two locations in the Study area in 2012, both within a remnant bushland parcel surrounded by pasture on private property (Figure 7.1; Appendix I).

*Brassica tournefortii* (Mediterranean Turnip) is an annual herb to 0.6 m high (DEC 2012a). It is a common weed of wasteland, roadsides, grazed woodlands, shrublands and islands, and is also a widespread weed in cropping areas (Hussey *et al.* 2007). It was rated as High under the Environmental Weed Strategy for Western Australia, due to its combined High level of invasiveness, distribution and level of ecological impact (CALM 1999). This species is rated as having a High ecological impact and Rapid rate of dispersal (DEC 2008). It was recorded in two locations in the Study area in 2012, in a remnant bushland parcel surrounded by pasture on private property (Figure 7.1; Appendix I).

*Briza maxima* (Blowfly Grass) is an annual grass to 0.6 m in height (DEC 2012a). It is a widespread and common weed of wasteland, granite rocks, wetlands and woodlands from Geraldton through to Esperance (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). This species is also rated as having an unknown ecological impact and Rapid rate of dispersal (DEC 2008). It was recorded in four locations within the Study area in 2012, all in areas of remnant bushland surrounded by pasture on private property (Figures 7.1, 7.2; Appendix I).

*Bromus diandrus* (Great Brome) is an annual grass to 0.7 m in height (DEC 2012a). It is widespread weed of offshore islands, wetlands, road verges, granite rocks, pasture and crops throughout the south-west and parts of the eastern Goldfields regions of Western Australia (Hussey *et al.* 2007). This species was rated as High under the Environmental Weed Strategy for Western Australia, due to its high High level of invasiveness, distribution and level of ecological impact (CALM 1999). This species is also rated as having a High ecological impact and Rapid rate of dispersal (DEC 2008). It was recorded in two locations in the Study area, both within a parcel of remnant bushland surrounded by pasture on private property (Figure 7.1; Appendix I).

*Cuscuta epithymum* (Lesser Dodder) is a parasitic, climbing annual herb or climber, often found in sandy soils over limestone or granite (DEC 2012a). It parasites annual herbs from Kalbarri to Busselton (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). This species is also rated as having an unknown ecological impact and Rapid rate of dispersal (DEC 2008). This species was recorded in one location in 2012, in a parcel of remnant bushland surrounded by pasture on private property (Figure 7.2; Appendix I).

*Echium plantagineum* (Salvation Jane; Patersons Curse) is an erect annual or biennial herb to 1 m high (DEC 2012a). This species is widespread throughout the south-west of Western Australia in agricultural land, roadsides and reserves and is a target for biological control (Hussey *et al.* 2007). It was noted as having a High ecological impact and Rapid rate of dispersal (DEC 2008). *E. plantagineum* is a Declared Pest (DP) under the BAM Act (Department of Agriculture and Food 2013), however not for the shires of Three Springs and Mingenew, within which the Study area is located. Three locations of this species were recorded, all within a parcel of remnant bushland surrounded by pasture on private property (Figure 7.1; Appendix I).

*Ehrharta brevifolia* (Annual Veldt Grass) is an annual grass to 0.4 m in height (DEC 2012a). It is a widespread weed of mainly coastal dunes and shrublands from Shark Bay to Eucla (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). This species is also rated as having an unknown ecological impact and Rapid rate of dispersal (DEC 2008). It was recorded in one location in the Study area in 2012, in *Eucalyptus accedens* woodland (VT 2) (Figure 7.4; Appendix I).

*Ehrharta calycina* (Perennial Veldt Grass) is a perennial grass to 0.7 m high (DEC 2012a). It is also a widespread weed of roadsides, agricultural land and other disturbed sites throughout the south-west of Western Australia, however also invades undisturbed bushland, particularly following fire (DEC 2012a; Hussey *et al.* 2007). This species was rated as High under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness, wide current and potential distribution, and high level of environmental impact to structure, composition and function of ecosystems (CALM 1999). It was ranked as having a High ecological impact and rapid rate of dispersal (DEC 2008). *E. calycina* was recorded at one location in the Study area in 2011, within an area of *Eucalyptus accedens* woodland (Figure 7.4).

*Ehrharta longiflora* (Annual Veldt Grass) is an annual grass to 0.6 m in height (DEC 2012a), and is found on offshore islands, coastal dunes and sandy soils from Shark bay to Eucla, and inland on disturbed creeklines and grazed woodlands in the wheatbelt (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). It was ranked as Unknown in terms of its ecological impact, and Rapid in its rate of dispersal (DEC 2008). It was recorded in six locations in the Study area in 2012, in two separate bushland remnants surrounded by pasture on private property (Figures 7.1, 7.2; Appendix I).

*Erodium cicutarium* (Common Storksbill) is a decumbent, ascending or erect annual or biennial herb to 0.2 m high (DEC 2012a), and is a common weed on sandy soils from Dirk Hartog Island to the Nullarbor (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). It was ranked as Low in terms of its ecological impact, and Rapid in its rate of dispersal (DEC 2008). It was recorded in two areas of remnant bushland surrounded by pasture on private property, at 4 point locations (Figures 7.1, 7.2; Appendix I).

*Hypochaeris glabra* (Smooth Catsear) is a rosetted, annual or perennial herb to 0.5 m high (DEC 2012a). It is a widespread weed of roadsides, agricultural land, disturbed sites and bushland throughout the south-west of Western Australia (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). *H. glabra* was recorded at 14 locations in the Study area in 2011 and 2012 (Figures 7.1 – 7.4; Appendix I). The majority of locations were recorded on parcels of remnant bushland surrounded by pasture, as well as some association with *Eucalyptus accedens* woodland and other relatively moist sites.



*Isolepis marginata* (Coarse Club-rush) is a tufted, annual sedge to 0.2 m high (DEC 2012a). It is common and widespread in Winter-wet areas throughout the south-west of Western Australia, and is considered by some to be native, however may have been introduced from South Africa (Hussey *et al.* 2007). This species was not assessed under the Environmental Weed Strategy for Western Australia (CALM 1999). *I. marginata* was recorded at a single location in the Study area in 2011, within an area of *Eucalyptus accedens* woodland (Figure 7.4).

*Lysimachia arvensis* (Pimpernel) is a spreading, annual herb to 0.3 m high, and is a widespread weed of gardens, paddocks, granite rocks and disturbed bushland throughout the south-west of Western Australia, extending in to the arid zone (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). *L. arvensis* was recorded at four locations in the Study area in 2011 and 2012, including three locations in remnant bushland surrounded by pasture, and also within an area of *Eucalyptus accedens* woodland (Figure 7.1, 7.2, 7.4; Appendix I).

*Monoculus monstrosus* (Stinking Roger) is an annual herb to 0.7 m high (DEC 2012a). It is widespread on roadsides and open bushland throughout the south-west (Hussey *et al.* 2007). This species was rated as Mild under the Environmental Weed Strategy for Western Australia, due to its wide current and potential distribution (CALM 1999). It was ranked as having an Unknown ecological impact and Rapid rate of dispersal (DEC 2008). It was recorded in one location in remnant bushland surrounded by pasture (Figure 7.1; Appendix I).

*Parentucellia latifolia* (Common Bartsia) is an erect, annual herb to 0.3 m high (DEC 2012a). It is a widespread weed of wetlands, woodlands and granite rocks throughout the south-west of Western Australia (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). *P. latifolia* was recorded at three locations in the Study area in 2011 - 2012, within areas of remnant bushland in private property, and in an area of *Eucalyptus accedens* woodland (Figure 7.1, 7.2, 7.4; Appendix I).

*Pentameris airoides* subsp. *airoides* (False Hairgrass) is a delicate, annual grass to 0.15 m high, and is a common and widespread weed of granite rocks, woodlands, shrublands and disturbed sites throughout the south-west and adjacent arid zone of Western Australia (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). *P. airoides* subsp. *airoides* was recorded at 10 locations in the Study area in 2011 – 2012, associated with remnant bushland on private property, *Eucalyptus accedens* woodland and other relatively moist sites (Figure 7.1, 7.2, 7.4; Appendix I).

*Petrorhagia dubia* (Velvet Pink) is an erect herb to 0.7 m high (DEC 2012a). It is a common weed of paddock edges, wasteland, road verges, granite rocks and disturbed woodland and shrubland from Perth to Albany (Hussey *et al.* 2007); although locations of this species are known to extend from Geraldton through to Esperance (DEC 2012a). This species was rated as Mild under the Environmental Weed Strategy for Western Australia, due to its wide current and potential distribution

(CALM 1999). It was ranked as having a Low ecological impact and Rapid rate of dispersal (DEC 2008). It was recorded at one location within the Study area in 2012, in remnant bushland surrounded by paddocks in private property (Figure 7.1; Appendix I).

*Trifolium campestre* var. *campestre* (Hop clover) is a prostrate, ascending or erect annual herb to 0.3 m high (DEC 2012a). It is a widespread weed of roadsides, wasteland, grazed woodland, cultivated land and heavily grazed pastures from Northampton to Cape Arid (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). It has a High level of ecological impact and a Moderate rate of dispersal (DEC 2008). It was recorded at one location in the Study area in 2012, in a remnant bushland parcel surrounded by pasture (Figure 7.2; Appendix I).

*Ursinia anthemoides* (Ursinia) is an erect, annual herb to 0.5 m high (DEC 2012a). It is a widespread weed of various habitats, including both disturbed and undisturbed bushland, throughout the south-west of Western Australia (Hussey *et al.* 2007). This taxon was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). *U. anthemoides* was recorded at 10 locations in the Study area in 2011 – 2012, associated with remnant bushland on private property, *Eucalyptus accedens* woodland or relatively moist sites (Figure 7.1 – 7.4; Appendix I).

*Vulpia myuros* (Rat's Tail Fescue) is a tufted, annual grass to 0.7 m high (DEC 2012a). It is a widespread weed of crops, pasture, other disturbed sites and undisturbed bushland throughout the south-west of Western Australia and the adjacent arid zone (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). *V. myuros* was recorded at 9 locations in the Study area in 2011 - 2012, associated with remnant bushland parcels on private property, or relatively moist sites (Figure 7.1 – 7.3; Appendix I).

*Wahlenbergia capensis* (Cape Bluebell) is an erect, annual herb to 0.5 m high (DEC 2012a). It is a widespread weed of roadsides, other disturbed sites and undisturbed bushland throughout the south-west of Western Australia (Hussey *et al.* 2007). This species was rated as Moderate under the Environmental Weed Strategy for Western Australia, due to its high level of invasiveness and wide current and potential distribution (CALM 1999). *W. capensis* was recorded at two locations in the Study area in 2011, one was associated with *Eucalyptus accedens* woodland while the other as associated with *Eucalyptus todtiana* woodland (Figure 7.3, 7.4; Appendix I).

#### 4.1.5 Significance of Conservation Significant Flora Populations

Table 13 presents the significance of local conservation significant flora populations to the overall conservation significance of each taxon, as determined from Table 7.

The populations of *Eucalyptus crispata*, *Paracaleana dixonii* and *Thelymitra stellata* (all T (DRF)) in the Study area were all ranked as being of 'High' significance to the overall conservation significance of each taxon (Table 7; 13).

The significance of the local populations (in terms of the species regional conservation significance) of *Lasiopetalum ogilvieanum* (P1), *Micromyrtus rogeri* (P1), *Synaphea oulopha* (P1), *Eucalyptus abdita* (P2), *Schoenus badius* (P2) and ?*Stylidium carnosum* subsp. *Narrow leaves* (J.A. Wege 490) (P1) were all ranked as 'High' because they are currently known from less than 10 discrete populations (DEC 2012b; Table 7; 13).

The local populations of both *Allocasuarina grevilleoides* (P3) and *Haemodorum loratum* (P3) were ranked as 'High' because the populations in the Study area represent the northern-most known occurrences of these species (current collections represent range extensions), while *Cryptandra intermedia* (atypical variant), *Eucalyptus* sp. (unidentified 2) and *Leucopogon* sp. were ranked as 'High' as they are likely to represent new taxa, and are therefore likely to be of conservation significance.

The significance of the local populations of *Persoonia filiformis* (P2), *Acacia isoneura* subsp. *isoneura* (P3), *Stylidium pseudocaespitosum* (P2), *Beyeria gardneri* (P3), *Eucalyptus ?macrocarpa x pyriformis* (P3), *Guichenotia impudica* (P3), *Mesomelaena stygia* subsp. *deflexa* (P3), *Malleostemon decipiens* (P1), *Stylidium drummondianum* (P3) and *Thryptomene* sp. *Mingenew* (Diels & Pritzel 332) (P3), *Verticordia luteola* var. *luteola* (P3) and *Calytrix chrysantha* (P4) were all ranked 'Moderate' (in terms of the species regional conservation significance), as they are all currently known from more than 10, but less than 20, discrete populations (Table 7; 13).

The significance of the local populations of *Hemiandra* sp. *Eneabba* (H. Demarz 3687) (P3), *Persoonia rudis* (P3), *Schoenus griffinianus* (P3), *Stylidium torticarpum* (P3), *Synaphea aephynsa* (P3), *Banksia scabrella* (P4) and *Eucalyptus macrocarpa* subsp. *elachantha* (P4), were all ranked as 'Low', as they are all currently known from 20 or more discrete populations.

*Eucalyptus leprophloia* (T (DRF)), *Banksia fraseri* ?var. *crebra* and *Guichenotia impudica* (both P3) were not ranked, as they were not recorded and are not expected to occur in the Study area.

Table 13: Significance of Local Conservation Significant Flora Populations to the Overall Conservation Significance of Each Taxon

Taxon	Conservation Code	Range of Taxon (km)	Approximate Number of Populations (sub-populations) Known in the Study area	Approximate Number of Populations Known Regionally (DEC 2012a; b)	Comments	Significance of Local Populations to the Overall Conservation Significance of Taxon
<i>Acacia isoneura</i> subsp. <i>isoneura</i>	P3	60	1	9	Not on edge of range	Moderate
<i>Allocasuarina grevilleoides</i>	P3	250	1 (5)	13	Edge of range (range ext)	High
<i>Banksia fraseri</i> ?var. <i>crebra</i>	P3	110	Unknown#	8	Not on edge of range	NA
<i>Banksia scabrella</i>	P4	110	1 (26)	39	Not on edge of range	Low
<i>Beyeria gardneri</i>	P3	360	1	19	Not on edge of range	Low
<i>Calytrix chrysantha</i>	P4	110	1	16	Not on edge of range	Moderate
<i>Cryptandra intermedia</i> (atypical variant)	-	-	1 (2)	-	-	High
<i>Eucalyptus abdita</i>	P2	150	1 (3)	7	Edge of range	High
<i>Eucalyptus crispata</i>	T (DRF)	80	4	12	Edge of range	High
<i>Eucalyptus leprophloia</i>	T (DRF)	120	Unknown*	9	Not on edge of range	NA
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	P4	240	1 (19)	41	Not on edge of range	Low
<i>Eucalyptus</i> ? <i>macrocarpa</i> x <i>pyriformis</i>	P3	340	1 (3)	11	Not on edge of range	Moderate
<i>Eucalyptus</i> sp. (unidentified 2)	-	-	1	-	-	High
<i>Guichenotia impudica</i>	P3	630	Unknown#	11	Not on edge of range	NA
<i>Haemodorum loratum</i>	P3	350	1 (19)	19	Edge of range (range ext)	High
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	P3	60	1 (11)	22	Not on edge of range	Low
<i>Lasiopetalum ogilvieanum</i>	P1	85	1 (8)	7	Not on edge of range	High
<i>Leucopogon</i> sp.	-	-	1	-	-	High
<i>Malleostemon decipiens</i>	P1	40	1 (2)	10	Edge of range	Moderate
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	P3	70	1 (16)	11	Not on edge of range	Moderate
<i>Micromyrtus rogeri</i>	P1	170	1 (13)	7	Not on edge of range	High
<i>Paracaleana dixonii</i>	T (DRF)	180	1 (30)	21^	Edge of range (range ext)	High
<i>Persoonia filiformis</i>	P2	110	1 (8)	11	Not on edge of range	Moderate

Taxon	Conservation Code	Range of Taxon (km)	Approximate Number of Populations (sub-populations) Known in the Study area	Approximate Number of Populations Known Regionally (DEC 2012a; b)	Comments	Significance of Local Populations to the Overall Conservation Significance of Taxon
<i>Persoonia rudis</i>	P3	270	1 (14)	32	Not on edge of range	Low
<i>Schoenus badius</i>	P2	240	1 (5)	3	Not on edge of range	High
<i>Schoenus griffinianus</i>	P3	370	1	21	Not on edge of range	Low
<i>Stylidium drummondianum</i>	P3	170	1 (21)	14	Not on edge of range	Moderate
<i>Stylidium pseudocaespitosum</i>	P2	110	1	14	Not on edge of range	Moderate
<i>Stylidium torticarpum</i>	P3	315	1 (12)	33	Not on edge of range	Low
? <i>Stylidium carnosum</i> subsp. Narrow leaves (J.A. Wege 490)	P1	155	1	5	Edge of range	High
<i>Synaphea aephynsa</i>	P3	330	1 (10)	32	Edge of range	Low
<i>Synaphea oulopha</i>	P1	35	1 (17)	7	Edge of range	High
<i>Thelymitra stellata</i>	T (DRF)	450	1 (20)	42	Edge of range (Range ext)	High
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	P3	60	1 (7)	32	Edge of range	Moderate
<i>Verticordia luteola</i> var. <i>luteola</i>	P3	110	1	16	Not on edge of range	Moderate

Note: \* - No individuals were located during the 2011 or 2012 surveys.

# - Further material needs to be collected to determine whether *Banksia fraseri* var. *crebra* (P3) and *Guichenotia impudica* (P3) occur in the Study area.

^ - data from DEC DEFL database

## **4.2 VEGETATION OF THE STUDY AREA**

### **4.2.1 Vegetation Type Mapping**

Statistical analysis of taxon presence/absence data was performed on 119 quadrats, using 390 vascular taxa. Ephemeral taxa were not included in the analysis as consistent ephemeral taxon data was not recorded across all quadrats (many ephemeral taxa could not be identified in November because they had senesced or were absent altogether). A preliminary analysis that included ephemeral taxon data (undertaken in 2011) also demonstrated very little change in the floristic classification.

Numerous taxa were removed from the analysis or amalgamated with other taxa because of identification issues resulting from poor available material in the field, these are listed in Appendix J. Manual dissection of the resultant floristic classification of the 119 quadrats defined 14 VTs, three of which were split further into two sub-types each. These VTs comprise four super-groups. The split between the four super-groups is based primarily on soil types, and usually associated topographical location, within the Study area, with distinct differences in species composition between the super-groups.

Appendix K presents a list of vascular plant taxa recorded in each VT within the Study area (quadrat data only). Appendix L presents the summary dendrogram of relationships between each quadrat. Appendix M presents a 2-way table (summary matrix) of the species and quadrats. Appendix N presents significant indicator taxa for each VT.

Vegetation Type mapping is presented on Figures 8.0 – 8.4.

## Super-group 1

Super-group 1 is comprised of VTs 1 - 6, with VT 1 divided into two sub-types. It consists of vegetation on clay or occasionally sandy-loam soils, generally on or near drainage lines, to mid-slopes. The overstorey was for the most part characterised by the presence of *Eucalyptus accedens*, however an overstorey was not always present, with the understory varying from a mid shrubland dominated by *Melaleuca* species, to a low sparse shrubland and forbland of mixed species.

VTs 4, 5 and 6 were not mapped during the 2011 assessment.

The average species richness per quadrat of VTs within Super-group 1 varied from  $20.0 \pm 0.0$  taxa per quadrat in VT 1b, to  $3.0 \pm 0.0$  in VT 2, the lowest of all VTs. The highest number of taxa recorded was 101 (63 used in the analysis) in VT 4, with the lowest being 10 (five used in the analysis) taxa in VT 2, the lowest of all VTs. The species diversity in Super-group 1 was likewise low in comparison to the other Super-groups, as reflected by the species and quadrat (dendrogram order) matrix (Appendix M). Species Groups A, B, K and R were predominately recorded in quadrats from Super-group 1, with fewer records of species from all other Species Groups, including the dominant groups I, O, P and S (Appendix M).

VTs 1 - 6 are described below.

**VT 1a:** Mid open forest of *Eucalyptus accedens* over mid open shrubland dominated by *Gastrolobium spinosum*, *Olearia rudis* and *Anthocercis genistoides* over low open forbland and rushland dominated by *Calandrinia calyptrata*, *Calandrinia corrigioloides*, *Millotia myosotidifolia*, *Trachymene pilosa* and *Conostylis aculeata* subsp. *breviflora* on grey sand on mid slopes

**Total Area:** 25.42 ha

**Percentage of Study area:** 0.27 %

**Sampling:** 2 quadrats (WE001; WE112)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid Open Forest (Trees 10 - 30 m)	<i>Eucalyptus accedens</i>
Mid Stratum 1	Mid Open Shrubland (Shrubs 1 - 2 m)	<i>Gastrolobium spinosum</i> , <i>Olearia rudis</i> , <i>Hakea lissocarpha</i> , <i>Macrozamia fraseri</i> , <i>Anthocercis genistoides</i>
Lower Stratum 1	Low Forbland and Rushland (<0.5 m)	<i>Calandrinia calyptrata</i> , <i>Calandrinia corrigioloides</i> , <i>Trachymene pilosa</i> , <i>Conostylis aculeata</i> subsp. <i>breviflora</i> , <i>Crassula colorata</i> var. <i>acuminata</i> , <i>Millotia myosotidifolia</i>

**Indicator Taxa:**

<i>Anthocercis genistoides</i> *
<i>Eucalyptus accedens</i> *
<i>Gastrolobium spinosum</i> ***
<i>Gompholobium pungens</i> ***
<i>Olearia rudis</i> ***

**Landform Types:** Mid-slopes

**Soil Types:** Grey, white sand

VT 1a was mapped in four small areas in the south-east corner of the Study area, two of which are located in private property (Figure 8.4). VT 1a is similar to VT 1b in possessing *Eucalyptus accedens* as the dominant taxon; however VT 1b occurs on sandy- and clay- loams, which is reflected in the differing understory composition of VTs 1a and 1b.

A total of 37 vascular plant taxa were recorded in and surrounding the two quadrats that comprise VT 1a (Appendix K), of which 17 were used in the analysis. The average taxon richness per quadrat within VT 1a was  $11.0 \pm 1.4$ . Three conservation significant flora taxa were recorded in VT 1a (*Micromyrtus rogeri* (P1), *Stylidium drummondianum* (P3) and *Stylidium torticarum* (P3)), however VT 1a was not the preferred habitat for any of these species. A further nine introduced taxa were recorded (*Arctotheca calendula*, *Ehrharta brevifolia*, *Ehrharta calycina*, *Hypochaeris glabra*, *Isolepis marginata*, *Parentucellia latifolia*, *Pentameris airoides* subsp. *airoides*, *Ursinia anthemoides* and *Wahlenbergia capensis*).



The condition of the vegetation in most polygons of VT 1a was ranked '2' (Excellent), because of the presence of numerous introduced taxa, albeit at relatively low levels (Keighery 1994; Appendix F) (Figure 7.4). The condition of the vegetation at one polygon was ranked '1' (Pristine) (Figure 7.4).



**Plate 3:** VT 1a (Quadrat WE-001) (Photo: Woodman Environmental)

**VT 1b:** Mid open forest of *Eucalyptus accedens* over low open shrubland dominated by *Gastrolobium plicatum* and *Dodonaea divaricata* over low open forbland of mixed species including *Goodenia berardiana*, *Rhodanthe manglesii*, *Podolepis lessonii* and *Acanthocarpus canaliculatus* on grey-brown sandy or clay loams on mid-upper slopes

**Total Area:** 41.62 ha

**Percentage of Study area:** 0.44 %

**Sampling:** 2 quadrats (WE020; WE046)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid Open Forest (Trees 10 - 30 m)	<i>Eucalyptus accedens</i>
Lower Stratum 1	Low Open Shrubland (Shrubs <1 m)	<i>Gastrolobium plicatum</i> , <i>Goodenia berardiana</i>
Lower Stratum 2	Low Forbland and Rushland (<0.5 m)	<i>Trachymene cyanopetala</i>

**Indicator Taxa:**

<i>Acanthocarpus canaliculatus</i> ***
<i>Desmocladius asper</i> *
<i>Dianella revoluta</i> **
<i>Dodonaea divaricata</i> ***
<i>Gastrolobium plicatum</i> ***
<i>Glischrocaryon aureum</i> *
<i>Orthrosanthus laxus</i> var. <i>laxus</i> ***
<i>Ptilotus manglesii</i> *
<i>Rhagodia preissii</i> subsp. <i>preissii</i> **
<i>Stylidium torticarpum</i> *
<i>Velleia trinervis</i> ***

**Landform Types:** Upper and mid slopes

**Soil Types:** Grey or brown clay and sandy loams

VT 1b was mapped in 11 separate small areas near the south-eastern edge of the Study area (Figure 8.4). As previously mentioned, VT 1b is similar to VT 1a in possessing *Eucalyptus accedens* as the dominant taxon. However VT 1b occurs on sandy and clay loams, which is reflected in the differing understory composition of VTs 1a and 1b.

A total of 49 vascular plant taxa were recorded in and surrounding the quadrats which grouped to form VT 1b (Appendix K), of which 28 were used in the analysis. Average taxon richness per quadrat within VT 1b was  $20.0 \pm 0$ . Five conservation significant flora taxa are known to occur in VT 1b (*Eucalyptus abdita* (P2), *Micromyrtus rogeri* (P1), *Stylidium drummondianum* (P3), *Synaphea oulopha* (P1) and *Stylidium torticarpum* (P3)), however VT 1b is not the preferred habitat for any of

these species. Four introduced taxa are also known to occur within this VT (*Arctotheca calendula*, *Hypochaeris glabra*, *Lysimachia arvensis* and *Pentameris airoides* subsp. *airoides*).

The condition of the vegetation in VT 1b was ranked '1' or 'Pristine' in 1 quadrat, however the second quadrat established in this VT was ranked '2' due to the presence of numerous weed taxa, albeit at relatively low levels (Keighery 1994; Appendix F). Areas mapped as VT 1b were ranked '1', '1/2' or '2' (Figure 7.4), depending upon the level of disturbance and introduced flora noted in the area during the surveys in 2012.



**Plate 4: VT 1b (Quadrat WE-020) (Photo: Woodman Environmental)**

**VT 2:** Mid open forest of *Eucalyptus accedens* or low open forest *E. loxophleba* subsp. *loxophleba* over mid open shrubland dominated by *Rhagodia preissii* subsp. *preissii* and *Melaleuca acutifolia* on grey-brown sandy loams on flats and slopes

**Total Area:** 5.66 ha

**Percentage of Study area:** 0.06 %

**Sampling:** 2 quadrats (WE096; WE100)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid Woodland (Trees 10 - 30 m)	<i>Eucalyptus accedens</i> , <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>
Mid Stratum 1	Mid Shrubland (Shrubs 1 - 2 m)	<i>Rhagodia preissii</i> subsp. <i>preissii</i> , <i>Melaleuca acutifolia</i>

**Indicator Taxa:** None

**Landform Types:** Flats to Midslopes

**Soil Types:** Brown to grey or white sandy loam

VT 2 was mapped in two small areas near the north-western edge of the Study area (Figure 8.1). VT 2 shows close affinity to VT 1a and 1b (Appendix L), however the overstorey was variously dominated by *E. accedens* or *E. loxophleba* subsp. *loxophleba*, over a very species poor understorey on sandy loam. Both quadrats which grouped into VT 2 were newly established in 2012.

A total of 10 vascular plant taxa were recorded in and surrounding both quadrats which form VT 2 (Appendix K), of which five were used in the analysis. Average taxon richness per quadrat within VT 2 was  $3.0 \pm 0$ . No conservation significant flora taxa, or introduced taxa, were recorded in this VT during 2012.

The condition of the vegetation in VT 2 was ranked '1' or 'Pristine' in both quadrats, and has been mapped as such (Figure 7.1).





**Plate 5: VT 2 (Quadrat WE-096) (Photo: Woodman Environmental)**

**VT 3:** Occasional mid woodland of *Eucalyptus accedens* over mid shrubland dominated by *Melaleuca concreta*, *M. marginata* and *M. acutifolia* over low isolated mixed shrubs and sedges including *Acacia ericksoniae* and *Lepidosperma* sp. A2 Inland Flat (G.J. Keighery 7000) on pink-brown or white clay loams on flats

**Total Area:** 21.52 ha

**Percentage of Study area:** 0.23 %

**Sampling:** 3 quadrats (WE029, WE071, WE098)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid Woodland (Trees 10 - 30 m)	<i>Eucalyptus accedens</i>
Mid Stratum 1	Mid Shrubland (Shrubs 1 - 2 m)	<i>Allocasuarina campestris</i> , <i>Melaleuca concreta</i> , <i>Melaleuca marginata</i> , <i>Melaleuca radula</i> , <i>Gastrolobium bennettsianum</i>
Lower Stratum 1	Low Isolated Shrubs and Sedges (<0.5 m)	<i>Acacia ericksoniae</i> , <i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)

**Indicator Taxa:**

<i>Acacia ericksoniae</i> ***
<i>Baeckea crispiflora</i> var. <i>tenuior</i> **
<i>Comesperma volubile</i> **
<i>Gastrolobium bennettsianum</i> **
<i>Melaleuca concreta</i> *
<i>Melaleuca radula</i> *

**Landform Types:** Drainage lines or flats, upper slope

**Soil Types:** Brown or pink-brown clay or clay loam, sand

VT 3 was mapped in a single area near the north-western edge of the Study area (Figure 8.1). All three quadrats had a defining Mid Stratum dominated by a mix of *Melaleuca concreta* with *M. marginata* and *M. acutifolia* also co-dominating over isolated low shrubs and sedges, however, only one of these quadrats (WE071) also had an upper stratum dominated by *Eucalyptus accedens*.

A total of 35 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 3 (Appendix K), of which 34 were used in the analysis. Average taxon richness per quadrat within VT 3 was  $15.7 \pm 4.5$ . The conservation significant flora taxa *Haemodorum loratum* (P3), *Mesomelaena stygia* subsp. *deflexa* (P3), *Stylidium torticarpum* (P3) and *Eucalyptus macrocarpa* subsp. *elachantha* (P4) are known to occur in VT 3, with no introduced taxa recorded. VT 3 is not the preferred habitat of any of the conservation significant taxa recorded. The condition of the vegetation all three quadrats in VT 3 was ranked '1' or 'Pristine' (Keighery 1994; Appendix F; Figure 7.1).



**Plate 6: VT 3 (Quadrat WE-071) (Photo: Woodman Environmental)**

**VT 4:** Tall closed to open shrubland dominated by *Allocasuarina campestris* or occasionally *Acacia neurophylla* subsp. *neurophylla* over mid open shrubland and sedgeland of mixed species including *Grevillea biternata*, *Melaleuca radula*, *Melaleuca concreta*, *Thryptomene* sp. Mingenew (Diels & Pritzel 332) (P3), *Ecdeiocolea monostachya* and *Thryptomene racemulosa* on grey-brown sand, sandy loam or clay loam, occasionally with granitic pebbles, on slopes and flats adjacent to seasonal creeks

**Total Area:** 47.89 ha

**Percentage of Study area:** 0.50 %

**Sampling:** 7 quadrats (WE091, WE093, WE094, WE092, WE120, WE121, WE127); also includes Site 04)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Mid Stratum 1	Mid Shrubland (Shrubs 1 - 3 m)	<i>Acacia neurophylla</i> subsp. <i>neurophylla</i> , <i>Allocasuarina campestris</i> , <i>Hakea trifurcata</i> , <i>Melaleuca radula</i> , <i>Melaleuca concreta</i> , <i>Scholtzia laxiflora</i> , <i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)
Lower Stratum 1	Low Isolated Shrubs and Sedges (<0.5 m)	<i>Borya sphaerocephala</i> , <i>Ecdeiocolea monostachya</i> , <i>Desmocladus asper</i> , <i>Opercularia vaginata</i>

**Indicator Taxa:**

<i>Austrostipa elegantissima</i> *
<i>Austrostipa variabilis</i> **
<i>Grevillea biternata</i> *

**Landform Types:** Flat, lower slopes, mid slopes, upper slopes

**Soil Types:** Brown – grey to Grey sand to sandy loam to clay loam

VT 4 was mapped in a seven small polygons adjacent to Sand Plain Creek located on private property in the north of the Study area (Figures 8.1, 8.2). A mid stratum usually dominated by *Allocasuarina campestris* over *Melaleuca* spp. was present. Four quadrats which grouped into VT 4 were located on or adjacent to a drainage line, on at least partially clay soils; three were located on upper-mid slopes on sand.

A total of 101 vascular plant taxa were recorded in VT 4 (Appendix K), of which 63 were used in the analysis. Average taxon richness per quadrat within VT 4 was  $19.7 \pm 4.2$ . The conservation significant flora taxa *Malleostemon decipiens* (P1), *Stylidium torticarum* (P3) and *Thryptomene* sp. Mingenew (Diels & Pritzel 332) (P3) were recorded in VT 4. Five of the eight known locations of *Thryptomene* sp. Mingenew (Diels & Pritzel 332) (P3) are known from this VT, with 1 of the 2 known locations of *Malleostemon decipiens* (P1) also known from this VT; VT 4 is the preferred habitat for both of these taxa within the Study area.



A total of 14 introduced taxa recorded in VT 4 (Table 12). This reflects the state of the vegetation in VT 4, mainly due to its location both on private property in remnant bushland, and also in close proximity to a drainage line. Each of these taxa are common pasture weeds, however the Declared Pest *Echium plantagineum* (Salvation Jane; Patersons Curse) was also recorded in this VT. The condition of the vegetation in the majority of quadrats was ranked variously from '1' (Pristine) to '3' (Very Good), with the overall condition of these areas being mapped as '3' or '4' (Keighery 1994; Appendices F, H; Figures 7.1, 7.2).



**Plate 7: VT 4 (Quadrat WE094) (Photo: Woodman Environmental)**

Two areas of degraded VT 4 (VT 4D) were mapped (Figure 8.1). Site 01 was undertaken in one of these areas, and the condition of the vegetation was ranked as '5' (Very Poor: Basic vegetation structure severely impacted by disturbance) (Keighery 1994; Appendix F). A total of 12 species was recorded at this site, of which only two were native (*Acacia acuminata* and *Acacia saligna*). The conservation significant taxon *Thryptomene* sp. Mingenew (Diels & Pritzel 332) (P3), as well as the Declared Pest *Echium plantagineum* were recorded in VT 4D.

**VT 5:** Tall closed shrubland to shrubland dominated by *Allocasuarina campestris* with occasional *Acacia aciphylla*, *Acacia neurophylla* subsp. *neurophylla* and *Melaleuca viminea* subsp. *viminea* over sparse low shrubland and sedgeland of mixed species including *Ecdeiocolea monostachya* and *Thryptomene racemulosa* over open forbland and grassland of mixed introduced species including \**Ehrharta longiflora* and *Ursinia anthemoides* on grey or brown sandy or clay loams within and on the banks of seasonal creeks

**Total Area:** 39.69 ha

**Percentage of Study area:** 0.42 %

**Sampling:** 2 quadrats (WE095, WE117); also includes Site 03)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Mid Stratum 1	Mid Shrubland (Shrubs 1 - 3 m)	<i>Acacia neurophylla</i> subsp. <i>neurophylla</i> , <i>Allocasuarina campestris</i>
Lower Stratum 1	Low Isolated Shrubs and Sedges (<0.5 m)	<i>Ecdeiocolea monostachya</i> , * <i>Ursinia anthemoides</i>

**Indicator Taxa:**

<i>Acacia aciphylla</i> ***
<i>Acacia neurophylla</i> subsp. <i>neurophylla</i> **
<i>Allocasuarina campestris</i> *

**Landform Types:** Flat, Drainage Line

**Soil Types:** Brown – grey sand to sandy loam to clay loam

VT 5 was mapped in 11 small polygons on and adjacent to Sand Plain Creek located on private property in the north of the Study area (Figures 8.1, 8.2). The vegetation was generally dominated by a mid stratum of *Allocasuarina campestris* with other species occasionally present. The lower stratum of VT 5 was invariably dominated by introduced species; this is due to both the location of the VT on private property in close proximity to pasture, and to its location on a drainage line.

A total of 16 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 5 (Appendix K), of which 11 were used in the analysis. Average taxon richness per quadrat within VT 5 was  $7.5 \pm 0.7$ . Quadrat WE105, which originally grouped into VT 5 in the statistical analysis, was manually moved to VT 8 due to the soil type and location in the landscape (grey sandy loam on upper slope of ridge), and has therefore not been included in this VT.

The conservation significant flora taxa *Malleostemon decipiens* (P1) and *Thryptomene* sp. *Mingenew* (Diels & Pritzel 332) (P3) were recorded in VT 5, although this VT is not the preferred habitat for either of these species. In addition, the only location of *Acacia isoneura* subsp. *isoneura* (P3) recorded within the Study area was recorded in VT 5.

A total of 3 introduced taxa were recorded in VT 5 (Table 12), one of which (*Ursinia anthemoides*) was dominant in the understorey. Each of these taxa are commonly found in pasture lands and disturbed bushland in the south-west of Western Australia, and are not Declared Pests.

The condition of the vegetation of the three quadrats which grouped to VT 5 were ranked as '3' (Very Good), with the single site located in this VT ranked as '4' (Good). The condition of the vegetation in VT 5 was various mapped as '3' and '4' (Keighery 1994; Appendices F, H; Figures 7.1, 7.2).



**Plate 8:** VT 5 (Quadrat WE-117) (Photo: Woodman Environmental)

**VT 6:** Open woodland of *Eucalyptus loxophleba* subsp. *loxophleba* over mid closed shrubland dominated by *Melaleuca marginata* over sparse forbland of mixed species including *Rhodanthe polycephala* on grey-brown clay on slopes above seasonal creeks

**Total Area:** 3.20 ha

**Percentage of Study area:** 0.03 %

**Sampling:** 1 quadrats (WE122)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Low Woodland (Trees <10 m)	<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>
Mid Stratum 1	Mid Shrubland (Shrubs 1 - 2 m)	<i>Melaleuca marginata</i>
Lower Stratum 1	Low Isolated Forbs and Grasses (<0.5 m)	Various introduced species

**Indicator Taxa:** None (single quadrat)

**Landform Types:** Midslope

**Soil Types:** Brown – grey light clay

VT 6 was mapped at one location within remnant bushland on private property, in the north-east of the Study area (Figure 8.2). One quadrat was established in this VT during 2012, with the upper stratum dominated by *Eucalyptus loxophleba* subsp. *loxophleba* (York Gum), which historically may have been typical throughout this area on lower slopes to midslopes on clay soils prior to cultivation. The mid stratum was a dense layer of *Melaleuca marginata* with some *Allocasuarina campestris*, and this coupled with the low species richness are the reasons why this quadrat was grouped in Supergroup 1. The lower stratum was very sparse, and dominated by a mix of introduced species.

A total of 12 vascular plant taxa were recorded in and surrounding the quadrat which forms VT 6 (Appendix K). No conservation significant flora taxa were recorded in this VT. A total of six introduced species were recorded in VT 6 (Table 12), which together dominated the understorey, although none had particularly high foliage covers (Appendix H). Each of the six introduced taxa are commonly found in pasture lands and disturbed bushland in the south-west of Western Australia. None of the introduced taxa are Declared Pests. The condition of the vegetation in this VT was ranked '1' (Pristine) despite the presence of these taxa, and has been mapped as such (Keighery 1994; Appendices F, H; Figure 7.2).





**Plate 9: VT 6 (Quadrat WE-122) (Photo: Woodman Environmental)**

## Super-group 2

Super-group 2 is comprised of VTs 7 to 9, with VT 7 divided into two sub-types. It consists of vegetation on upland areas associated with laterite, including breakaways, rises and slopes. Surface expression of laterite in the form of outcropping or gravel was not always present, however the vegetation composition was strongly influenced even when not present.

Generally, the vegetation mapped as Super-group 2 consisted of mid shrublands often dominated by *Allocasuarina campestris*, or occasionally *Melaleuca concreta* and *M. marginata*, over species-rich low shrublands. However, there were frequently isolated mallees, grading to mallee woodland in several large areas, with *Eucalyptus conveniens* the dominant species. VT 7 was manually split into sub-types based on distinct differences in understory composition and soil type.

The average taxon richness per quadrat of VTs within Super-group 2 varied from  $56.2 \pm 10.3$  taxa per quadrat in VT 7b (the highest of all VTs in the Study area), to  $32.7 \pm 5.9$  in VT 9. The highest number of taxa recorded was 203 (188 used in the analysis) in VT 7b (the highest of all VTs in the Study area), with the lowest being 91 (84 used in the analysis) taxa in VT 9. VTs forming this Super-group also are the preferred habitat for a number of conservation significant flora taxa.

The species diversity in Super-group 2 was relatively high in relation to the other Super-groups (especially Super-group 1). Species from Species Groups C, I, M, P, Q and S were predominately recorded in quadrats from Super-group 2, with fewer records of species from Species Group O (Appendix M).

VTs 7 through to 9 are described below.

**VT 7a:** Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species frequently dominated by *Ecdeiocolea monostachya* and *Melaleuca aspalathoides*, or occasionally *M. tinkeri*, *Hakea auriculata* or *Hakea lissocarpha*, on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests

**Total Area:** 799.11 ha

**Percentage of Study area:** 8.37 %

**Sampling:** 13 quadrats (WE002, WE005, WE051, WE055, WE058, WE009; WE033, WE010, WE014, WE085, WE026, WE077, WE119)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid Mallee Woodland (Mallees <10 m)	<i>Eucalyptus conveniens</i>
Mid Stratum 2	Mid Open Shrubland (Shrubs 1 - 2 m)	<i>Allocasuarina campestris</i> , <i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i> ,
Lower Stratum 1	Low Shrubland and Sedgeland (Shrubs and Sedges <1 m)	<i>Ecdeiocolea monostachya</i> , <i>Hakea lissocarpha</i> , <i>Allocasuarina microstachya</i> , <i>Melaleuca aspalathoides</i> , <i>Borya sphaerocephala</i> , <i>Hakea auriculata</i> , <i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A), <i>Hibbertia hypericoides</i> , <i>Hakea incrassata</i> , <i>Schoenus clandestinus</i> , <i>Banksia carlinoides</i> , <i>Banksia fraseri</i> ?var. <i>fraseri</i> , <i>Melaleuca tinkeri</i> , <i>Petrophile chrysantha</i> , <i>Melaleuca trichophylla</i>

**Indicator Taxa:**

<i>Allocasuarina microstachya</i> *
<i>Boronia cymosa</i> ***
<i>Daviesia oxyclada</i> *
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)*
<i>Neurachne alopecuroidea</i> **

**Landform Types:** Upper slopes, mid slopes, crests

**Soil Types:** Grey or brown sand or clay loam, often with lateritic pebbles, occasionally with lateritic outcropping

VT 7a was mapped widely and over large portions of upland areas throughout the Study area (Figures 8.1 – 8.4). Generally, the vegetation mapped as VT 7a consisted of a mid shrubland of *Allocasuarina campestris* over a low shrubland and sedgeland of mixed species, with *Melaleuca aspalathoides*, *Melaleuca tinkeri* and *Ecdeiocolea monostachya* frequently dominating. However, occasionally a low mallee woodland

or isolated mallees of *Eucalyptus conveniens* replaced or occurred with *Allocasuarina campestris*, with some areas not possessing an upper stratum of either of *E. conveniens* or *Allocasuarina campestris*. Of the 13 quadrats which grouped into VT 7a, 12 were established in 2011, with only one established in 2012 (WE119).

VT 7a is most similar to VT 7b, however VT 7a generally occurs in areas where laterite is expressed on the surface, with VT 7b generally occurring in sandier areas. This is reflected in the taxon composition of the lower stratum, including species such as *Hakea auriculata* being more common in areas of VT 7a. The indicator species of VT 7a are commonly found on lateritic sands.

A total of 176 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 7a (Appendix K), of which 156 were used in the analysis. The average taxon richness per quadrat within VT 7a was  $46.5 \pm 7.8$ . The conservation significant flora taxa *Paracaleana dixonii*, *Thelymitra stellata* (both T (DRF)), *Lasiopetalum ogilvieanum*, *Micromyrtus rogeri*, *Synaphea oulopha* (all P1), *Persoonia filiformis*, *Schoenus badius* (both P2), *Allocasuarina grevilleoides*, *Haemodorum loratum*, *Hemiandra* sp. Eneabba (H. Demarz 3687), *Mesomelaena stygia* subsp. *deflexa*, *Persoonia rudis*, *Stylidium drummondianum*, *Synaphea aephyrsa*, *Thryptomene* sp. Mingenew (Diels & Pritzel 332) (all P3), *Banksia scabrella*, *Calytrix chrysantha* and *Eucalyptus macrocarpa* subsp. *elachantha* (all P4) are known to occur in VT 7a.

VT 7a has preferred habitat for a variety of conservation significant taxa including *Banksia scabrella* (P4), *Eucalyptus macrocarpa* subsp. *elachantha* (P4), *Haemodorum loratum* (P3), *Hemiandra* sp. Eneabba (H. Demarz 3687) (P3), *Synaphea aephyrsa* (P3) and *Synaphea oulopha* (P1), and is habitat for the only known location of *Calytrix chrysantha* (P3).

Only two introduced species were recorded: *Ehrharta longiflora* and *Ursinia anthemoides* (Table 12). Both of these are common pasture weeds and are not Declared Pests. The condition of the vegetation in all quadrats in VT 7a was ranked '1' or 'Pristine' (Keighery 1994; Appendix F), and has been mapped as such (Figures 7.1 – 7.4).





**Plate 10:** VT 7a (Quadrat WE-055) (Photo: Woodman Environmental)

**VT 7b:** Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Banksia carlinoides*, *Ecdeiocolea monostachya*, *Hakea incrassata*, *Hibbertia hypericoides* and *Melaleuca aspalathoides* on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests

**Total Area:** 663.65 ha

**Percentage of Study area:** 6.95 %

**Sampling:** 13 quadrats (WE012, WE039, WE074, WE030, WE041, WE013, WE017, WE044, WE047, WE087, WE062, WE082, WE090)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid Mallee Woodland (Mallees <10 m)	<i>Eucalyptus conveniens</i>
Mid Stratum 2	Mid Open Shrubland (Shrubs 1 - 2 m)	<i>Allocasuarina campestris</i>
Lower Stratum 1	Low Shrubland and Sedgeland (Shrubs and Sedges <1 m)	<i>Hibbertia hypericoides</i> , <i>Calothamnus sanguineus</i> , <i>Schoenus clandestinus</i> , <i>Petrophile brevifolia</i> , <i>Mesomelaena pseudostygia</i> , <i>Hakea incrassata</i> , <i>Schoenus brevisetis</i> , <i>Neurachne alopecuroidea</i> , <i>Gastrolobium plicatum</i> , <i>Eremaea beaufortioides</i> var. <i>microphylla</i> , <i>Ecdeiocolea monostachya</i> , <i>Caustis dioica</i> , <i>Banksia carlinoides</i> , <i>Allocasuarina humilis</i> , <i>Melaleuca aspalathoides</i> , <i>Hakea lissocarpha</i> , <i>Dampiera lindleyi</i> , <i>Cassytha glabella</i> forma <i>bicallosa</i> , <i>Banksia shuttleworthiana</i> , <i>Babingtonia camphorosmae</i> , <i>Opercularia vaginata</i> , <i>Hibbertia crassifolia</i> , <i>Verticordia pennigera</i> , <i>Scaevola canescens</i> , <i>Melaleuca</i> aff. <i>leuropoma</i> , <i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509), <i>Hypocalymma hirsutum</i> , <i>Goodenia coerulea</i> , <i>Hakea stenocarpa</i> , <i>Daviesia daphnoides</i> , <i>Conostylis canteriata</i> , <i>Boronia cymosa</i> , <i>Banksia dallanneyi</i> subsp. <i>media</i> , <i>Baekkea grandiflora</i> , <i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i> , <i>Melaleuca leuropoma</i> , <i>Lepidobolus preissianus</i> subsp. <i>preissianus</i> , <i>Hakea trifurcata</i> , <i>Daviesia pedunculata</i> , <i>Darwinia speciosa</i> , <i>Cristonia biloba</i> , <i>Calytrix flavescens</i> , <i>Burchardia congesta</i> , <i>Allocasuarina microstachya</i> , <i>Acacia dilatata</i> , <i>Verticordia laciniata</i> , <i>Stylidium drummondianum</i> , <i>Stylidium crossocephalum</i> , <i>Melaleuca trichophylla</i> , <i>Leptospermum spinescens</i> , <i>Hakea spathulata</i> , <i>Hakea circumalata</i> , <i>Hakea auriculata</i> , <i>Cryptandra myriantha</i> , <i>Conostylis androstemma</i> , <i>Cassytha ?pomiformis</i> , <i>Beaufortia elegans</i> , <i>Banksia scabrella</i> , <i>Banksia fraseri</i> var. <i>?fraseri</i> , <i>Acacia acuarua</i>

**Indicator Taxa:**

<i>Banksia carlinoides</i> **
<i>Calothamnus sanguineus</i> ***
<i>Caustis dioica</i> *
<i>Hakea incrassata</i> ***
<i>Hakea stenocarpa</i> *
<i>Hibbertia hypericoides</i> ***
<i>Petrophile brevifolia</i> ***
<i>Schoenus brevisetis</i> ***

**Landform Types:** Upper slopes, mid slopes, lower slopes, crests, ridges

**Soil Types:** Grey, brown or grey-brown sand, sandy loam or clay loam, often with lateritic pebbles.

VT 7b was mapped widely and over large portions of upland areas throughout the Study area (Figures 8.1 – 8.4). As for VT 7a, the vegetation mapped as VT 7b generally consisted of a mid shrubland of *Allocasuarina campestris* over a low shrubland and sedgeland of mixed species, with *Banksia carlinoides*, *Ecdeiocolea monostachya*, *Hakea incrassata*, *Hibbertia hypericoides* and *Melaleuca aspalathoides* frequently dominating. However, occasionally a low mallee woodland or isolated mallees of *Eucalyptus conveniens* replaced or occurred with *Allocasuarina campestris*, and some areas did not possess an upper stratum of either *E. conveniens* and/or *Allocasuarina campestris*. All of the 13 quadrats which grouped into VT 7b were established in 2011.

As previously mentioned, VT 7b is most similar to VT 7a, however VT 7a was mapped generally in areas where laterite was expressed on the surface, with VT 7b generally occurring in sandier areas. All of the indicator species of VT 7b commonly occur on sand over lateritic soils, or lateritic sands.

A total of 203 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 7b (Appendix K), of which 188 were used in the analysis. Average taxon richness per quadrat within VT 7b was  $56.2 \pm 10.3$ . This is the highest average taxon richness of any VT mapped within the Study area. Numerous conservation significant flora taxa were recorded in VT 7b, including *Paracaleana dixonii*, *Thelymitra stellata* (both T (DRF)), *Lasiopetalum ogilvieanum*, *Micromyrtus rogeri*, *Synaphea oulopha* (all P1), *Persoonia filiformis* (P2), *Allocasuarina grevilleoides*, *Banksia fraseri* ?var. *crebra*, *Eucalyptus* ?*macrocarpa* x *pyriformis*, *Haemodorum loratum*, *Mesomelaena stygia* subsp. *deflexa*, *Persoonia rudis*, *Stylidium drummondianum*, *Stylidium torticarpum*, *Synaphea aephynsa* (all P3), *Banksia scabrella* and *Eucalyptus macrocarpa* subsp. *elachantha* (both P4).

VT 7b is preferred habitat for several conservation significant taxa, including *Banksia scabrella* (P4) and *Paracaleana dixonii* (T (DRF)), and holds the only known location of *Banksia fraseri* var. ?*crebra* (P3).

No introduced taxa were recorded within VT 7b, and the condition of the vegetation in all quadrats in VT 7b was ranked '1' ('Pristine'); the vegetation condition has therefore been mapped as such (Keighery 1994; Appendix F; Figures 7.1 – 7.4).



**Plate 11:** VT 7b (Quadrat WE-087) (Photo: Woodman Environmental)

**VT 8:** Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* over mid shrubland to open shrubland dominated by *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Hakea auriculata*, *Melaleuca radula*, *M. aspalathoides* and *Banksia fraseri* var. *fraseri* on gravelly grey or brown clay loams usually over massive laterite on breakaway tops, ridges and lateritic rises

**Total Area:** 443.93 ha

**Percentage of Study area:** 4.65 %

**Sampling:** 17 quadrats (WE004, WE011, WE028, WE022, WE043, WE042, WE081, WE056, WE059, WE063, WE065, WE068, WE069, WE102, WE111, WE113; WE105); also includes Site 09

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Mid Mallee Woodland (Mallees <10 m)	<i>Eucalyptus conveniens</i>
Mid Stratum 2	Mid Shrubland to Open Shrubland (Shrubs 1 - 2 m)	<i>Allocasuarina campestris</i>
Lower Stratum 1	Low Shrubland and Sedgeland (Shrubs and Sedges <1 m)	<i>Hakea auriculata</i> , <i>Banksia fraseri</i> var. <i>fraseri</i> , <i>Neurachne alopecuroidea</i> , <i>Ecdeiocolea monostachya</i> , <i>Boronia cymosa</i> , <i>Melaleuca radula</i> , <i>Hakea lissocarpa</i> , <i>Stylidium drummondianum</i> (P3), <i>Patersonia graminea</i> , <i>Opercularia vaginata</i> , <i>Hibbertia hypericoides</i> , <i>Glischrocaryon aureum</i> , <i>Schoenus armeria</i> , <i>Melaleuca aspalathoides</i> , <i>Dodonaea ericoides</i> , <i>Daviesia</i> sp. (unidentified), <i>Schoenus clandestinus</i> , <i>Petrophile shuttleworthiana</i> , <i>Lepidosperma tenue</i> , <i>Dampiera lindleyi</i> , <i>Cryptandra myriantha</i> , <i>Conostylis androstemma</i> , <i>Hibbertia spicata</i> subsp. <i>spicata</i> , <i>Gastrolobium plicatum</i> , <i>Mesomelaena pseudostygia</i> , <i>Goodenia hassallii</i> , <i>Baeckea grandiflora</i> , <i>Polianthion wichurae</i> , <i>Micromyrtus rogeri</i> (P1), <i>Mesomelaena preissii</i> , <i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A), <i>Lepidobolus preissianus</i> subsp. <i>preissianus</i> , <i>Jacksonia foliosa</i> , <i>Isopogon divergens</i> , <i>Hakea incrassata</i> , <i>Hakea circumalata</i> , <i>Calothamnus longissimus</i> , <i>Banksia shuttleworthiana</i> , <i>Acanthocarpus</i> sp. <i>Ajana</i> (C.A. Gardner 8596), <i>Acacia acuaria</i>

**Indicator Taxa:**

<i>Banksia fraseri</i> var. <i>fraseri</i> ***
<i>Hakea auriculata</i> **
<i>Petrophile shuttleworthiana</i> *

**Landform Types:** Upper slopes, mid slopes, crests, ridges, breakaways

**Soil Types:** Grey, brown or grey brown clay or sandy loams, usually with lateritic pebbles and exposed lateritic outcropping

VT 8 was also mapped widely over upland areas throughout the Study area, however usually in relatively small areas associated specifically with very rocky breakaways, rises and slopes (Figures 8.1 – 8.4). As for VTs 7a and 7b, the vegetation mapped as VT 8 generally consisted of a mid shrubland of *Allocasuarina campestris* over a low shrubland and sedgeland of mixed species, with *Ecdeiocolea monostachya*, *Hakea auriculata*, *Melaleuca radula*, *M. aspalathoides* and *Banksia fraseri* var. *?fraseri* frequently dominating. However, occasionally a low mallee woodland or isolated mallees of *Eucalyptus conveniens* occurred. VT 8 is most similar to VT 9 (Appendix L), however VT 9 is associated with weathered and decaying breakaways with clay soils; this is reflected in its taxon composition.

Quadrat WE105 was manually dissected from other quadrats forming VT 5 (Appendix L), due to the nature of the substrate and soils upon which this area is located (Figure 8.1). VT 5 is located on grey or brown sandy or clay loams within and on the banks of seasonal creeks, and the area upon which WE105 is located is grey sandy loam on the upper slope of a ridge. Quadrat WE105 grouped with VT 5 (as per the dendrogram shown on Appendix L) due to the relatively low number of species recorded in this quadrat, with seven species recorded in the quadrat as opposed to an average species richness of 33.8 for VT 8. However it is considered to represent VT 8 and has been mapped as such.

A total of 168 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 8 (Appendix K), of which 144 were used in the analysis. Average taxon richness per quadrat within VT 8 was  $33.8 \pm 10.3$ . Numerous conservation significant flora taxa were recorded in VT 8, including: *Paracaleana dixonii*, *Thelymitra stellata*, *Eucalyptus crispata* (all T (DRF)), *Lasiopetalum ogilvieanum*, *Micromyrtus rogeri*, *Synaphea oulopha* (all P1), *Eucalyptus abdita* (P2), *Allocasuarina grevilleoides*, *Eucalyptus macrocarpa* x. *pyriformis*, *Haemodorum loratum*, *Mesomelaena stygia* subsp. *deflexa*, *Persoonia rudis*, *Stylidium drummondianum*, *Stylidium torticarum*, *Synaphea aephyntsa* (all P3), *Eucalyptus macrocarpa* subsp. *elachantha* and *Banksia scabrella* (P4) are known to occur in VT 8, with historical DEC records of *Eucalyptus leprophloia* (T (DRF)) also occurring in this VT.

VT 8 also contains preferred habitat for a variety of conservation significant taxa, including *Allocasuarina grevilleoides* (P3), *Eucalyptus abdita* (P2), *Eucalyptus crispata* (T (DRF)), *Mesomelaena stygia* subsp. *deflexa* (P3), *Micromyrtus rogeri* (P1), *Stylidium drummondianum* (P3), *Stylidium torticarum* (P3), *Synaphea oulopha* (P1) and *Thelymitra stellata* (T (DRF)).

The introduced taxon *Pentameris airoides* subsp. *airoides* was recorded in VT 8. The condition of the vegetation in all quadrats in VT 8 was ranked '1' or 'Pristine' and has been mapped as such (Keighery 1994; Appendix F; Figures 7.1 – 7.4).





**Plate 12: VT 8 (Quadrat WE-081) (Photo: Woodman Environmental)**

Three small areas of degraded VT 8 (VT 8D) were also mapped (Figure 8.4), having a total area of 9.49 ha, which is 0.1 % of the Study area. These are remnant areas on rocky slopes surrounded by pasture on private property.

**VT 9:** Mid to low open shrubland of *Allocasuarina campestris*, *Melaleuca concreta* and *Melaleuca marginata* over low shrubland dominated by *Melaleuca tinker* and occasionally *Gastrolobium plicatum* over low shrubland and forbland dominated by *Stylidium torticarpum* (P3), *Leucopogon* sp. Yandanooka (M. Hislop 2507) and *Micromyrtus rogeri* (P1) on gravelly pink-brown or white-grey clay or clay loam over decaying laterite on breakaway tops and slopes

**Total Area:** 50.2 ha

**Percentage of Study area:** 0.53 %

**Sampling:** 6 quadrats (WE015, WE061, WE036, WE076, WE045, WE070)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Mid Stratum 1	Mid to Low Open Shrubland (Shrubs <2 m)	<i>Melaleuca concreta</i> , <i>Allocasuarina campestris</i> , <i>Melaleuca marginata</i>
Lower Stratum 1	Low Shrubland (Shrubs <1 m)	<i>Melaleuca tinker</i> , <i>Hakea lissocarpa</i> , <i>Gastrolobium plicatum</i> , <i>Dodonaea ericoides</i> , <i>Petrophile chrysantha</i> , <i>Melaleuca aspalathoides</i> , <i>Hibbertia hypericoides</i> , <i>Astroloma pedicellatum</i> ms, <i>Eceidocolea monostachya</i>
Lower Stratum 2	Low Shrubland and Forbland (Shrubs and Forbs <0.5 m)	<i>Neurachne alopecuroidea</i> , <i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507), <i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000), <i>Lepidosperma tenue</i> , <i>Glischrocaryon aureum</i> , <i>Borya sphaerocephala</i> , <i>Stylidium torticarpum</i> (P3), <i>Mirbelia floribunda</i> , <i>Amhipogon caricinus</i> , <i>Schoenus clandestinus</i> , <i>Micromyrtus rogeri</i> (P1), <i>Dampiera lindleyi</i> , <i>Conostylis androstemma</i> , <i>Cassytha glabella</i> forma <i>bicallosa</i>

**Indicator Taxa:**

<i>Dodonaea ericoides</i> **
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)**
<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)***
<i>Melaleuca marginata</i> *
<i>Melaleuca tinker</i> ***
<i>Micromyrtus rogeri</i> *
<i>Mirbelia floribunda</i> *

**Landform Types:** Breakaway tops and slopes, flats below breakaways

**Soil Types:** Brown, pink, grey, white or grey-white clay or clay loam, often with lateritic gravel, often with exposed decaying laterite outcropping



VT 9 was mapped in small, scattered areas across the Study area, and was always associated with decaying, weathered breakaways (Figures 8.1 – 8.3). Generally, the vegetation mapped as VT 9 consisted of a mid shrubland of *Allocasuarina campestris*, *Melaleuca concreta* and *Melaleuca marginata* over a low shrubland frequently dominated by *Melaleuca tinkerii*. Occasionally, *Gastrolobium plicatum* was also dominant. There was also usually a low shrubland and forbland, with *Leucopogon* sp. Yandanooka (M. Hislop 2507) generally dominant, along with *Micromyrtus rogeri* (P1) and *Stylidium torticarpum* (P3). However, one unusual quadrat consisted of a low shrubland and forbland of mixed species, with no species dominating (WE045, Appendix H). As previously mentioned, VT 9 is most similar to VT 8, however VT 9 is associated with weathered and decaying breakaways with relatively unusual clay soils. This is reflected in the taxon composition of VT 9.

A total of 91 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 9 (Appendix K), of which 84 were used in the analysis. Average taxon richness per quadrat within VT 9 was  $32.7 \pm 5.9$ . The conservation significant flora taxa *Micromyrtus rogeri*, *Synaphea oulopha* (both P1), *Haemodorum loratum*, *Mesomelaena stygia* subsp. *deflexa*, *Stylidium drummondianum*, *Stylidium torticarpum* and *Synaphea aephyrsa* (all P3) and are known to occur in VT 9; however VT 9 is not the preferred habitat for any conservation significant species recorded.

No introduced taxa were recorded in VT 9. The condition of the vegetation in all quadrats in VT 9 was ranked '1' ('Pristine') (Keighery 1994; Appendix F) and has been mapped as such (Figures 7.1 – 7.3).



Plate 13: VT 9 (Quadrat WE-070) (Photo: Woodman Environmental)

### Super-group 3

Super-group 3 is comprised of VTs 10, 11 and 12. It consists of vegetation on slopes and flats associated with areas of yellow or grey-brown sand. The yellow sand was not always expressed on the surface, however was noted as being at relatively shallow depths when not on the surface. Generally, the vegetation mapped as Super-group 3 consisted of mid shrublands often dominated by *Calothamnus quadrifidus* subsp. *angustifolius*, *Grevillea biformis* subsp. *biformis* and *Allocasuarina campestris*, over species-rich low shrublands and sedgeland. The proteaceous shrubs *Banksia attenuata* and *Xylomelum angustifolium* were also often recorded in the mid shrub layer. Sedge species including *Ecdeiocolea monostachya* and *Mesomelaena pseudostygia* also often replaced shrub species as the dominant growth form in the lower stratum.

The average taxon richness per quadrat of VTs within Super-group 3 varied from  $47.5 \pm 5.3$  taxa per quadrat in VT 10, to  $26.3 \pm 7.1$  in VT 12. The highest number of taxa recorded was 175 in VT 10, with 96 taxa recorded in VT 12.

The species diversity in Super-group 3 was relatively high in relation to the other Supergroups (especially Super-group 1). Species from Species Groups O were predominately recorded in quadrats from Super-group 3, with fewer records of species from Species Group P, I and S (Appendix M).

VTs 10 through to 12 are described below.

**VT 10:** Mid sparse to open shrubland of mixed species including *Calothamnus quadrifidus* subsp. *angustifolius*, *Grevillea biformis* subsp. *biformis* and *Banksia attenuata* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Melaleuca leuropoma*, *Daviesia divaricata* subsp. *divaricata* ms, *Mesomelaena pseudostygia* and *Banksia shuttleworthiana* on yellow-brown or occasionally grey sand on slopes and valley floors

**Total Area:** 1032.53 ha

**Percentage of Study area:** 10.82 %

**Sampling:** 15 quadrats (WE003, WE019, WE016, WE052, WE057, WE089, WE084, WE023, WE025, WE048, WE078, WE079, WE031, WE067, WE027),

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Mid Stratum 1	Mid Sparse to Open Shrubland (Shrubs 1 - 2 m)	<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i> , <i>Grevillea biformis</i> subsp. <i>biformis</i>
Lower Stratum 1	Low Shrubland and Sedgeland (Shrubs and Sedges <1 m)	<i>Pileanthus filifolius</i> , <i>Melaleuca leuropoma</i> , <i>Ecdeiocolea monostachya</i> , <i>Mesomelaena pseudostygia</i> , <i>Banksia shuttleworthiana</i> , <i>Schoenus clandestinus</i> , <i>Lepidobolus preissianus</i> subsp. <i>preissianus</i> , <i>Hibbertia hypericoides</i> , <i>Conospermum boreale</i> subsp. <i>?ascendens</i> , <i>Scholtzia laxiflora</i> , <i>Stylidium repens</i> , <i>Scaevola canescens</i> , <i>Opercularia vaginata</i> , <i>Leptospermum oligandrum</i> , <i>Hakea polyanthema</i> , <i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms, <i>Dampiera spicigera</i> , <i>Hibbertia crassifolia</i> , <i>Goodenia coerulea</i> , <i>Daviesia nudiflora</i> , <i>Neurachne alopecuroidea</i> , <i>Monotaxis bracteata</i> , <i>Hakea circumalata</i> , <i>Eremaea violacea</i> subsp. <i>violacea</i> , <i>Daviesia pedunculata</i> , <i>Dampiera oligophylla</i> , <i>Acacia auronitens</i> , <i>Stylidium adpressum</i> , <i>Geleznovia verrucosa</i> , <i>Darwinia speciosa</i> , <i>Verticordia grandis</i> , <i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i> , <i>Pimelea angustifolia</i> , <i>Leptospermum spinescens</i> , <i>Isopogon tridens</i> , <i>Hakea cygna</i> subsp. <i>cygna</i> , <i>Burchardia congesta</i> , <i>Allocasuarina microstachya</i> , <i>Acanthocarpus</i> sp. <i>Ajana</i> (C.A. Gardner 8596), <i>Petrophile macrostachya</i> , <i>Melaleuca aspalathoides</i> , <i>Cryptandra myriantha</i> , <i>Cassytha glabella</i> forma <i>bicallosa</i> , <i>Astroloma serratifolium</i> , <i>Astroloma microdonta</i>

**Indicator Taxa:**

<i>Acacia auronitens</i> *
<i>Astroloma microdonta</i> *
<i>Astroloma serratifolium</i> *
<i>Banksia shuttleworthiana</i> ***
<i>Conospermum boreale</i> subsp. <i>?ascendens</i> **

<i>Ecdeiocolea monostachya</i> ***
<i>Eremaea violacea</i> subsp. <i>violacea</i> *
<i>Isopogon tridens</i> *
<i>Melaleuca leuropoma</i> ***
<i>Mesomelaena pseudostygia</i> **
<i>Monotaxis bracteata</i> *
<i>Pileanthus filifolius</i> ***
<i>Pimelea angustifolia</i> *
<i>Stylidium adpressum</i> *

**Landform Types:** Upper slopes, mid slopes, lower slopes, flats, crests

**Soil Types:** Yellow, yellow-brown, brown or grey sand or sandy loam

VT 10 was mapped widely over large areas across the Study area, generally associated with slopes and valley floors, including a large valley running roughly north-south through the centre of the Study area (Figures 8.1 – 8.4). Generally, the vegetation mapped as VT 10 consisted of a mid sparse to open shrubland of *Calothamnus quadrifidus* subsp. *angustifolius* and *Grevillea biformis* subsp. *biformis*, however *Banksia attenuata* and *Xylomelum angustifolium* were also occasionally present. There was always a species-rich low shrubland and sedgeland present, with taxa from the family Proteaceae comprising a large percentage of this stratum. The shrubs *Melaleuca leuropoma*, *Daviesia divaricata* subsp. *divaricata* ms and *Banksia shuttleworthiana*, and the sedges *Ecdeiocolea monostachya* and *Mesomelaena pseudostygia*, were frequently the dominant taxa in the lower stratum.

VT 10 is most similar to VT 11 (Appendix L), however in comparison VT 10 was mapped on areas lower in the landscape on deeper soils, with a diverse array of shrubs dominating the lower stratum in comparison to VT 11. All quadrats which grouped into VT 10 were established in 2011.

A total of 173 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 10 (Appendix K), of which 152 were used in the analysis. Average taxon richness per quadrat within VT 10 was  $47.5 \pm 5.3$ . The conservation significant flora taxa *Eucalyptus crispata*, *Paracaleana dixonii* (both T (DRF)), *Micromyrtus rogeri*, ?*Stylidium carnosum* subsp. *Narrow leaves*, *Synaphea oulopha* (J.A. Wege 490) (all P1), *Persoonia filiformis*, *Schoenus badius* (both P2), *Haemodorum loratum*, *Hemiandra* sp. *Eneabba* (H. Demarz 3687), *Mesomelaena stygia* subsp. *deflexa*, *Persoonia rudis*, *Schoenus griffinianus*, *Stylidium drummondianum*, *Synaphea aephynsa* (all P3), *Banksia scabrella* (P4) and *Eucalyptus macrocarpa* subsp. *elacantha* (P4) are known to occur in VT 10. VT 10 is preferred habitat for *Banksia scabrella* (P4), *Eucalyptus macrocarpa* subsp. *elacantha* (P4), *Haemodorum loratum* (P3), *Paracaleana dixonii* (T (DRF)) and *Persoonia filiformis* (P2).

The introduced species *Arctotheca calendula* and *Hypochaeris glabra* were also recorded in VT 10. The condition of the vegetation in all quadrats in VT 10 was ranked '1' or 'Pristine' (Keighery 1994; Appendix F), and has been mapped as such (Figures 7.1 – 7.4).



**Plate 14: VT 10 (Quadrat WE-003) (Photo: Woodman Environmental)**

One area of degraded VT 10 (VT 10D) was mapped surrounded by pasture (Figure 8.1). No site was undertaken in this area, however the vegetation condition of the area was ranked '5' (Basic vegetation structure severely impacted by disturbance) (Keighery 1994; Appendix F). This area covers 4.74 ha, 0.05 % of the Study area.

**VT 11:** Mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Hakea circumalata*, *Lepidobolus preissianus* subsp. *preissianus*, *Mesomelaena pseudostygia* and *M. stygia* subsp. *deflexa* (P3) on yellow or yellow-brown sand or sandy loam on mid to upper slopes

**Total Area:** 538.35 ha

**Percentage of Study area:** 5.64 %

**Sampling:** 6 quadrats (WE032, WE040, WE064, WE053, WE072, WE080); also includes Site 05 and Site 10

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Mid Stratum 1	Mid Sparse to Open Shrubland (Shrubs 1 - 2 m)	<i>Grevillea biformis</i> subsp. <i>biformis</i> , <i>Allocasuarina campestris</i> , <i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>
Lower Stratum 1	Low Shrubland and Sedgeland (Shrubs and Sedges <1 m)	<i>Schoenus clandestinus</i> , <i>Lepidobolus preissianus</i> subsp. <i>preissianus</i> , <i>Hakea circumalata</i> , <i>Ecdeiocolea monostachya</i> , <i>Dampiera spicigera</i> , <i>Scaevola canescens</i> , <i>Opercularia vaginata</i> , <i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3), <i>Mesomelaena pseudostygia</i> , <i>Borya sphaerocephala</i> , <i>Tricoryne humilis</i> , <i>Patersonia graminea</i> , <i>Neurachne alopecuroidea</i> , <i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms, <i>Boronia coerulescens</i> subsp. <i>spinescens</i> , <i>Amphipogon caricinus</i> , <i>Thryptomene ?racemulosa</i> , <i>Scholtzia laxiflora</i> , <i>Pileanthus filifolius</i> , <i>Melaleuca leuropoma</i> , <i>Dampiera oligophylla</i> , <i>Cassytha glabella</i> forma <i>bicallosa</i>

**Indicator Taxa:**

<i>Boronia coerulescens</i> subsp. <i>spinescens</i> *
<i>Dampiera spicigera</i> ***
<i>Grevillea biformis</i> subsp. <i>biformis</i> **
<i>Hakea circumalata</i> ***
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i> ***
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> *
<i>Schoenus clandestinus</i> ***

**Landform Types:** Upper slopes, mid slopes

**Soil Types:** Yellow or yellow-brown sand or sandy loam

VT 11 was mapped over a number of relatively large areas predominantly in the northern half of the Study area, and was generally associated with upland areas with sandy or sandy loam soils, rather than gravelly clay or clay loam soils (Figures 8.1 –

8.4). Generally, the vegetation mapped as VT 11 consisted of a mid sparse to open shrubland dominated by *Allocasuarina campestris*, with *Grevillea biformis* subsp. *biformis* usually present, and *Calothamnus quadrifidus* subsp. *angustifolius* often recorded. One unusual quadrat also possessed a low mallee woodland stratum, dominated by *Eucalyptus conveniens*, *E. pyriformis* and *E. sp. unidentified 2* (WE053). There was always a low shrubland and sedgeland present, however sedges were generally more dominant, with *Mesomelaena pseudostygia*, *M. stygia* subsp. *deflexa* (P3) and *Lepidobolus preissianus* subsp. *preissianus* generally dominant. As previously mentioned, VT 11 is most similar to VT 10, however in comparison VT 11 was generally found higher in the landscape on shallower soils, with *Allocasuarina campestris* frequently dominating the mid stratum, and sedges replacing shrubs as the dominant growth form in the lower stratum. All quadrats which grouped into VT 11 were established in 2011.

A total of 97 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 11 (Appendix K), of which 84 were used in the analysis. Average taxon richness per quadrat within VT 7 was  $30.7 \pm 7.7$ . The conservation significant flora taxa *Paracaleana dixonii*, *Thelymitra stellata* (both T (DRF)), *Micromyrtus rogeri*, *Synaphea oulopha* (both P1), *Eucalyptus macrocarpa* x *pyriformis*, *Guichenotia impudica*, *Mesomelaena stygia* subsp. *deflexa*, *Persoonia rudis*, *Stylidium drummondianum* (all P3), *Banksia scabrella*, *Eucalyptus macrocarpa* subsp. *elachantha* (both P4) and *Eucalyptus sp. unidentified 2* are known to occur in VT 11. However, VT 11 is not the preferred habitat for any of these species, except *Guichenotia impudica* (P3), where the only known location of this species in the Study area is located.

*Vulpia myuros* is the only introduced taxon known from VT 11. The condition of the vegetation in all quadrats in VT 11 was ranked '1' ('Pristine') (Keighery 1994; Appendix F) and it has been mapped as such (Figures 7.1 – 7.4).





**Plate 15:** VT 11 (Quadrat WE-080) (Photo: Woodman Environmental)



**VT 12:** Occasional mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Beaufortia elegans*, *Hibbertia hypericoides* and *Ecdeiocolea monostachya* on grey or brown sand or sandy loam on mid to upper slopes

**Total Area:** 243.32 ha

**Percentage of Study area:** 2.55 %

**Sampling:** 6 quadrats (WE035, WE101, WE103, WE106, WE104, WE099)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Occasional Low Open Woodland (Trees <10 m)	<i>Eucalyptus todtiana</i>
Mid Stratum 1	Mid Sparse to Open Shrubland (Shrubs 1 - 2 m)	<i>Banksia sessilis</i> var. <i>flabellifolia</i> , <i>Allocasuarina campestris</i> , <i>Grevillea biformis</i> subsp. <i>biformis</i> , <i>Hakea trifurcata</i>
Lower Stratum 1	Low Shrubland and Sedgeland (Shrubs and Sedges <1 m)	<i>Melaleuca</i> aff. <i>leuropoma</i> , <i>Melaleuca leuropoma</i> , <i>Hibbertia hypericoides</i> , <i>Beaufortia elegans</i> , <i>Ecdeiocolea monostachya</i> , <i>Hakea circumalata</i> ,

**Indicator Taxa:**

<i>Beaufortia elegans</i> ***
<i>Drosera erythrorhiza</i> *
<i>Leptospermum oligandrum</i> *

**Landform Types:** Mid slopes, upper slopes

**Soil Types:** Grey-white to Brown sand to sandy loam

VT 12 was mapped over several relatively large areas on the north-western corner of the Study area, on mid to upper slopes with sandy to sandy loam soils. The vegetation of VT 12 was dominated by a low shrubland and sedgeland of mixed species, dominated mainly by proteaceous and myrtaceous species including *Beaufortia elegans*, *Melaleuca leuropoma* and *Hibbertia hypericoides*, with sedge species such as *Ecdeiocolea monostachya* also being prevalent. A mid stratum was occasionally present, dominated by species such as *Allocasuarina campestris*, and at one quadrat there was an upper stratum of *Eucalyptus todtiana*.

VT 12 is composed of quadrats which were mainly established in 2012, however WE035 was established in 2011, and was originally incorporated into VT 8b (equivalent to VT 13b in this report). It shows similar characteristics to VTs 10 and 11 in the type of soil and position in the landscape, with the main differences in terms of species being the presence of forbs including *Drosera* spp..

A total of 95 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 12 (Appendix K), of which 84 were used in the analysis. Average taxon richness per quadrat within VT 7 was  $26.3 \pm 7.1$ . The conservation significant flora taxa *Paracaleana dixonii* (T (DRF)), *Micromyrtus rogeri* (P1), *Beyeria gardneri*, *Haemodorum loratum*, *Mesomelaena stygia* subsp. *deflexa*, *Persoonia rudis*, *Synaphea aephynsa*, (all P3), *Banksia scabrella* and *Eucalyptus macrocarpa* subsp. *elachantha* (both P4) are known to occur in VT 12. However, VT 12 is not the preferred habitat for any of these species, except *Beyeria gardneri* (P3), where the only known location of this species in the Study area is located.

No introduced taxa are known from VT 12. The condition of the vegetation in all quadrats in VT 12 was ranked '1' ('Pristine') (Keighery 1994; Appendix F) and it has been mapped as such (Figures 7.1 – 7.4).



**Plate 16:** VT 12 (Quadrat WE-106) (Photo: Woodman Environmental)

### Super-group 4

Super-group 4 is comprised of VTs 13 and 14, with VT 13 divided into 2 sub-types. It consists of vegetation on slopes and flats associated with areas of grey sand. Generally, the vegetation mapped as Super-group 4 consisted of a low woodland of *Eucalyptus todtiana*, however in some sites this species was absent. Species-rich mid and low shrubland layers were always present, with VT 14 generally characterised by a greater proportion of taxa common to wetter sites.

The average taxon richness per quadrat of VTs within Super-group 4 varied from  $47.9 \pm 10.7$  taxa per quadrat in VT 13a, to  $32.9 \pm 10.2$  in VT 14. The highest number of taxa recorded was 155 in VT 14, with the lowest number of taxa being 140 in VT 13b.

The species diversity in Super-group 4 was relatively high in relation to the other Super-groups (especially Super-group 1). Species from Species Groups I and S were predominately recorded in quadrats from Super-group 4, with fewer records of species from Species Groups O and P (Appendix M).

VTs 13 through to 14 are described below.

**VT 13a:** Low open woodland of *Eucalyptus todtiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Banksia scabrella* (P4), *Calothamnus sanguineus*, *Eremaea beaufortioides* var. *microphylla*, *Melaleuca* aff. *leuropoma* and *Hibbertia hypericoides* over low shrubland and sedgeland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis canteriata*, *Mesomelaena pseudostygia* and *Caustis dioica* on grey or brown sand on lower and mid slopes

**Total Area:** 1740.14 ha

**Percentage of Study area:** 18.23 %

**Sampling:** 9 quadrats (WE006, WE083, WE018, WE049, WE054, WE060, WE021, WE107, WE109)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Low Open Woodland (Trees <10 m)	<i>Eucalyptus todtiana</i>
Mid Stratum 2	Mid to Low Shrubland (Shrubs < 2 m)	<i>Pityrodia verbasina</i> , <i>Melaleuca leuropoma</i> , <i>Eremaea beaufortioides</i> var. <i>microphylla</i> , <i>Calothamnus sanguineus</i> , <i>Allocasuarina humilis</i> , <i>Melaleuca</i> aff. <i>leuropoma</i> , <i>Hibbertia hypericoides</i> , <i>Hibbertia crassifolia</i> , <i>Gompholobium tomentosum</i> , <i>Banksia scabrella</i> , <i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i> , <i>Lambertia multiflora</i> var. <i>multiflora</i> , <i>Hakea trifurcata</i> , <i>Beaufortia elegans</i> , <i>Scholtzia laxiflora</i> , <i>Nuytsia floribunda</i> , <i>Lomandra hastilis</i> , <i>Hakea psilorrhyncha</i> , <i>Banksia sessilis</i> var. <i>flabellifolia</i>
Lower Stratum 1	Low Shrubland and Sedgeland (Shrubs and Sedges <0.5 m)	<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509), <i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i> , <i>Conostylis canteriata</i> , <i>Banksia dallanneyi</i> subsp. <i>media</i> , <i>Anigozanthos humilis</i> subsp. <i>humilis</i> , <i>Stylidium repens</i> , <i>Lyginia imberbis</i> , <i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393), <i>Lasiopetalum drummondii</i> , <i>Hibbertia subvaginata</i> , <i>Goodenia coerulea</i> , <i>Eremaea ectadioclada</i> , <i>Desmocladius semiplanus</i> , <i>Calytrix sapphirina</i> , <i>Stylidium rigidulum</i> , <i>Stylidium crossocephalum</i> , <i>Patersonia occidentalis</i> , <i>Opercularia vaginata</i> , <i>Mesomelaena pseudostygia</i> , <i>Desmocladius parthenicus</i> , <i>Conostylis hiemalis</i> , <i>Chordifex sinuosus</i> , <i>Caustis dioica</i> , <i>Cassytha ?pomiformis</i> , <i>Xanthosia huegelii</i> , <i>Trachymene pilosa</i> , <i>Stachystemon axillaris</i> , <i>Schoenus curvifolius</i> , <i>Schoenus brevisetis</i> , <i>Podotheca gnaphalioides</i> , <i>Neurachne alopecuroidea</i> , <i>Lysinema pentapetalum</i> , <i>Isotropis cuneifolia</i> , <i>Daviesia nudiflora</i> , <i>Conostylis aculeata</i> subsp. <i>breviflora</i> , <i>Boronia ramosa</i> subsp. <i>anethifolia</i> , <i>Acacia stenoptera</i> , <i>Hakea polyanthema</i>

**Indicator Taxa:**

<i>Acacia stenoptera</i> *
<i>Alexgeorgea nitens</i> **
<i>Allocasuarina humilis</i> **
<i>Anigozanthos humilis</i> subsp. <i>humilis</i> ***
<i>Banksia dallanneyi</i> subsp. <i>media</i> ***
<i>Banksia sessilis</i> var. <i>flabellifolia</i> *
<i>Calytrix sapphirina</i> **
<i>Conostylis canteriata</i> *
<i>Conostylis hiemalis</i> ***
<i>Desmocladius semiplanus</i> *
<i>Eremaea ectadioclada</i> *
<i>Eucalyptus todtiana</i> **
<i>Gompholobium tomentosum</i> *
<i>Hakea psilorrhyncha</i> **
<i>Hibbertia subvaginata</i> *
<i>Isotropis cuneifolia</i> *
<i>Lambertia multiflora</i> var. <i>multiflora</i> *
<i>Lasiopetalum drummondii</i> **
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)***
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)*
<i>Lyginia imberbis</i> *
<i>Lysinema pentapetalum</i> *
<i>Patersonia occidentalis</i> **
<i>Quoya verbascina</i> ***
<i>Stachystemon axillaris</i> *
<i>Xanthosia huegelii</i> *

**Landform Types:** Mid slopes, lower slopes, plain

**Soil Types:** Grey-white or brown sand or sandy loam

VT 13a was mapped widely over large areas predominantly in the southern half of the Study area, and was generally associated with slopes and valley floor areas with grey sandy soils, rather than gravelly clay or clay loam soils (Figures 8.1 – 8.4). VT 13a was the most widespread mapped VT within the Study area. Generally, the vegetation mapped as VT 13a consisted of a low open woodland of *Eucalyptus todtiana*, over a mid to low, species rich shrubland, with *Allocasuarina humilis*, *Banksia scabrella* (P4), *Calothamnus sanguineus*, *Eremaea beaufortioides* var. *microphylla* and *Hibbertia hypericoides* often dominating. A low shrubland and sedgeland was also usually present, with *Banksia dallanneyi* subsp. *media* and several sedge species usually recorded. VT 13a is most similar to VT 13b, however VT 13a was generally



found in slightly drier sites, and this was reflected in the different understory composition.

A total of 143 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 13a (Appendix K), of which 130 were used in the analysis. The conservation significant flora taxa *Paracaleana dixonii*, *Thelymitra stellata* (both T (DRF)), *Lasiopetalum ogilvieanum*, *Synaphea oulopha* (both P1), *Persoonia filiformis*, *Stylidium pseudocaespitosum* (both P2), *Allocasuarina grevilleoides*, *Haemodorum loratum*, *Hemiandra* sp. Eneabba (H. Demarz 3687), *Mesomelaena stygia* subsp. *deflexa*, *Persoonia rudis*, *Schoenus griffinianus*, *Stylidium drummondianum*, *Synaphea aephyrsa*, *Verticordia luteola* var. *luteola* (all P3), *Banksia scabrella* and *Eucalyptus macrocarpa* subsp. *elachantha* (both P4) are known to occur in VT 13a. This VT also is preferred habitat for *Banksia scabrella* (P4), *Lasiopetalum ogilvieanum* (P1), *Hemiandra* sp. Eneabba (H. Demarz 3687) (P3), *Paracaleana dixonii* (T (DRF)), as well as for *Schoenus griffinianus* (P3) and *Stylidium pseudocaespitosum* (P2) which are only known from one location each in the Study area.

The only introduced species known from VT 13a is *Wahlenbergia capensis*. The condition of the vegetation in all quadrats in VT 13a was ranked '1' ('Pristine') (Keighery 1994; Appendix F), and it has been mapped as such (Figures 7.1 – 7.4).



Plate 17: VT 13a (Quadrat WE-054) (Photo: Woodman Environmental)

Three small areas of degraded VT 13a (VT 13aD) were mapped in remnant bushland surrounded by pasture (Figures 8.2, 8.4). These areas cover a total of 5.02 ha (0.05 % of the Study area). The vegetation condition in these areas was ranked '5' (Basic vegetation structure severely impacted by disturbance') (Keighery 1994; Appendix F).

**VT 13b:** Low open woodland of *Eucalyptus todtiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Calothamnus sanguineus*, *Hakea trifurcata*, *Hibbertia hypericoides* and *Melaleuca leuropoma* over low shrubland and rushland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis aculeata* subsp. *breviflora* and *Conostylis canteriata* on grey, brown or yellow sand on flats, in depressions and on slopes

**Total Area:** 547.55 ha

**Percentage of Study area:** 5.74 %

**Sampling:** 7 quadrats (WE034, WE088, WE050, WE066, WE073, WE038, WE075)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Upper Stratum 1	Low Open Woodland (Trees <10 m)	<i>Eucalyptus todtiana</i>
Mid Stratum 2	Mid to Low Shrubland (Shrubs < 2 m)	<i>Acacia blakelyi</i> , <i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i> , <i>Banksia scabrella</i> , <i>Beaufortia elegans</i> , <i>Hakea polyanthema</i> , <i>Scholtzia laxiflora</i> , <i>Verticordia densiflora</i> , <i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i> , <i>Gompholobium tomentosum</i> , <i>Hibbertia crassifolia</i> , <i>Allocasuarina humilis</i> , <i>Eremaea beaufortioides</i> var. <i>microphylla</i> , <i>Hakea trifurcata</i> , <i>Hibbertia hypericoides</i> , <i>Melaleuca leuropoma</i> , <i>Calothamnus sanguineus</i> , <i>Jacksonia hakeoides</i>
Lower Stratum 1	Low Shrubland and Rushland (Shrubs and Rushes <0.5 m)	<i>Babingtonia camphorosmae</i> , <i>Calytrix sapphirina</i> , <i>Hypocalymma hirsutum</i> , <i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i> , <i>Lepidobolus preissianus</i> subsp. <i>preissianus</i> , <i>Trachymene pilosa</i> , <i>Anigozanthos humilis</i> subsp. <i>humilis</i> , <i>Cassytha glabella</i> forma <i>bicallosa</i> , <i>Caustis dioica</i> , <i>Conostylis aculeata</i> subsp. <i>breviflora</i> , <i>Lyginia imberbis</i> , <i>Schoenus clandestinus</i> , <i>Mesomelaena pseudostygia</i> , <i>Conostylis canteriata</i> , <i>Neurachne alopecuroidea</i> , <i>Banksia dallanneyi</i> subsp. <i>media</i>

**Indicator Taxa:** No indicator taxa

**Landform Types:** Mid slopes, lower slopes, flats, drainage depressions

**Soil Types:** Grey, brown or yellow sand or sandy loam

VT 13b was mapped in several large areas, predominantly in the northern half of the Study area, and was generally associated with mid to lower slopes, flats and depressions with grey and occasionally brown sandy soils (Figures 8.1 – 8.4). Generally, the vegetation mapped as VT 13a consisted of a low open woodland of *Eucalyptus todtiana* (although this stratum was occasionally not present) over a mid to low, species rich shrubland, with *Allocasuarina humilis*, *Calothamnus sanguineus*, *Hakea trifurcata*, *Hibbertia hypericoides* and *Melaleuca leuropoma* often dominating.

A low shrubland and sedgeland was also usually present, with *Banksia dallanneyi* subsp. *media* and several species of *Conostylis* usually recorded. As previously mentioned, VT 13b is most similar to VT 13a, however VT 13b was generally found in slightly wetter sites and this was reflected in the different understory composition, including the more frequent presence of taxa such as *Hakea trifurcata* and *Conostylis aculeata* subsp. *breviflora*.

A total of 140 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 13b (Appendix K), of which 120 were used in the analysis. Average taxon richness per quadrat within VT 13b was  $36.7 \pm 11.8$ . The conservation significant flora taxa *Micromyrtus rogeri*, *Synaphea oulopha* (both P1), *Schoenus badius* (P2), *Haemodorum loratum*, *Hemiandra* sp. Eneabba (H. Demarz 3687), *Mesomelaena stygia* subsp. *deflexa*, *Stylidium drummondianum* (all P3) and *Banksia scabrella* (P4) are known to occur in VT 13b, however it is preferred habitat only for *Banksia scabrella* (P4).

The introduced taxa *Hypochaeris glabra* and *Pentameris airoides* subsp. *airoides* were also recorded in VT 13b. The condition of the vegetation in all quadrats in VT 13b was ranked '1' or 'Pristine' (Keighery 1994; Appendix F), and has been mapped as such (Figures 7.1 – 7.4).



**Plate 18:** VT 13b (Quadrat WE-083) (Photo: Woodman Environmental)



**VT 14:** Low open shrubland dominated by *Calothamnus quadrifidus* subsp. *angustifolius*, *Banksia carlinoides*, *Hakea lissocarpa* and *Verticordia densiflora* over low open shrubland, sedgeland and forbland dominated by *Dampiera teres* (broad-leaf variant), *Jacksonia angulata*, *Harperia lateriflora*, *Opercularia vaginata* and *Melaleuca trichophylla* on grey-brown sands, sandy loams and clay loams in minor drainage lines and on flats

**Total Area:** 166.89 ha

**Percentage of Study area:** 1.75 %

**Sampling:** 8 quadrats (WE007, WE086, WE008, WE037, WE024, WE097, WE109, WE110)

**Common taxa recorded within each stratum:**

Stratum	Descriptor	Taxa
Lower Stratum 1	Low Open Shrubland (Shrubs < 1 m)	<i>Melaleuca leuropoma</i> , <i>Banksia carlinoides</i> , <i>Verticordia densiflora</i> var. <i>densiflora</i> , <i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i> , <i>Hakea lissocarpa</i>
Lower Stratum 2	Low Open Shrubland, Sedgeland and Forbland (Shrubs, Sedges and Forbs <0.5 m)	<i>Acacia dilatata</i> , <i>Babingtonia camphorosmae</i> , <i>Borya sphaerocephala</i> , <i>Caustis dioica</i> , <i>Drosera menziesii</i> , <i>Grevillea umbellulata</i> , <i>Hakea spathulata</i> , <i>Hibbertia acerosa</i> , <i>Isotoma hypocrateriformis</i> , <i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i> , <i>Podotheca gnaphalioides</i> , <i>Ptilotus manglesii</i> , <i>Schoenus clandestinus</i> , <i>Trachymene pilosa</i> , <i>Conostylis aculeata</i> subsp. <i>breviflora</i> , <i>Dampiera teres</i> (broad-leaf variant), <i>Harperia lateriflora</i> , <i>Schoenus badius</i> , <i>Stylidium dichotomum</i> , <i>Calytrix depressa</i> , <i>Jacksonia angulata</i> , <i>Neurachne alopecuroidea</i> , <i>Opercularia vaginata</i> , <i>Melaleuca trichophylla</i> , <i>Melaleuca concreta</i> , <i>Hibbertia hypericoides</i> ,

**Indicator Taxa:**

<i>Calytrix depressa</i> *
<i>Drosera menziesii</i> subsp. <i>menziesii</i> *
<i>Harperia lateriflora</i> *
<i>Jacksonia angulata</i> *
<i>Opercularia vaginata</i> ***

**Landform Types:** Mid slopes, lower slopes, flats, drainage lines, wetlands, depressions

**Soil Types:** Grey, grey-white, brown or grey-brown sand, sandy loam or clay loam

VT 14 was mapped in several small areas in the western part of the Study area, and was generally associated with wet flats and drainage lines (Figures 8.1, 8.3).

Generally, the vegetation mapped as VT 14 consisted of a low open shrubland, with *Banksia carlinoides* usually dominating, along with *Calothamnus quadrifidus* subsp. *angustifolius*, *Hakea lissocarpha* and *Verticordia densiflora*. A species-rich low shrubland, sedgeland and forbland was always present, with *Dampiera teres* (broad-leaf variant), *Jacksonia angulata*, *Harperia lateriflora*, *Opercularia vaginata* and *Melaleuca trichophylla* usually recorded as dominants. Although VT 14 is most closely aligned with VT 13a and 13b (Appendix L), it is not similar to any other VTs mapped in the Study area. This is reflected by the presence of a number of forb, sedge and low shrub species either not recorded or recorded infrequently elsewhere.

A total of 153 vascular plant taxa were recorded in and surrounding quadrats which grouped to form VT 14 (Appendix K), of which 119 were used in the analysis. Average taxon richness per quadrat within VT 9 was  $32.9 \pm 10.2$ . The conservation significant flora taxa *Schoenus badius* (P2) and *Banksia scabrella* (P4) were recorded in VT 14, however this VT is not preferred habitat for either of these species.

Several introduced taxa were recorded in VT 14, including *Arctotheca calendula*, *Hypochaeris glabra*, *Ursinia anthemoides* and *Vulpia myuros*. The condition of the vegetation in all quadrats in VT 14 was ranked '1' or 'Pristine' (Keighery 1994; Appendix F), and has been mapped as such (Figures 7.1, 7.3).



**Plate 19:** VT 14 (Quadrat WE-086) (Photo: Woodman Environmental)

#### 4.2.2 Other Areas Mapped

PC 1D: Low woodland of *Acacia acuminata* over introduced pasture grasses and isolated native forbs including *Ptilotus manglesii* and *Arthropodium dyeri* on grey-brown clay loams on flats adjacent to seasonal creeks

One area of PC1D has been mapped (Figure 8.1). This area is located on a flat adjacent to Sand Plain Creek on private property, surrounded for the most part by pasture but also by communities VT 4 and VT 4D. This area covers 9.5 ha (0.1 % of the Study area). One site was undertaken in this unit (Site 02), and the condition of the vegetation was ranked '4' (Good) (Keighery 1994; Appendix F). An upper stratum of *Acacia acuminata* over a very species poor lower stratum of *Arthropodium dyeri* and *Ptilotus manglesii* was recorded, along with the Declared Pest *Echium plantagineum*.

C: Cleared Land

Areas where no native vegetation was present due to human disturbance (predominantly paddocks) were mapped as 'Cleared Land' (Figures 8.1 – 8.4). A total of 3099.26 ha of Cleared Land was mapped in the Study area.

#### 4.2.3 Vegetation Condition

In general, most of the vegetation in the Study area within the VCL was ranked and mapped as '1' or 'Pristine' (Keighery 1994; Appendix F), with the vegetation being pristine or nearly so, with no obvious signs of disturbance (Figure 7.1 - 7.4). Relatively few weeds were recorded in areas ranked and mapped as '1'.

Several quadrats located under *Eucalyptus accedens* (VTs 1a and 1b) within the VCL were ranked as '2', with these areas being structurally intact, with disturbance affecting individual species and the presence of some weeds of non-aggressive species. With regard to mapping the condition of these areas, some were noted as having both '1' and '2' condition rankings within the area, and were therefore mapped as a condition mosaic of 1/2 (Figure 7.4).

There were also small disturbed areas noted that are associated with historical petroleum exploration, however much of these areas have recovered to the point of resembling surrounding areas of vegetation.

Within the remnant bushland on private property within the Study area, relatively few areas were mapped as '1', including VTs 6, 8, 7a and 11 (Figures 7.2, 7.4). In these areas although some weeds were noted they were relatively scarce. These areas were also not situated on or near creeklines, which typically have a much greater disturbance history and weed loading. Several areas were mapped as '2' (Excellent), again mainly due to the presence of weeds of non-aggressive species, and were related to various VTs, including 1a, 8, 11, 13a, and 13b. Areas on private property which were mapped as vegetation condition rankings '1' and '2' were mostly a reflection of rockier soils on uplands, which are less suited to pasture and cropping in comparison to loamier soils on lower slopes and consequently the vegetation has had less disturbance.

Areas on private property where the vegetation condition has been mapped '3' (Very Good), '4' (Good) and '5' (Poor) were mainly related to remnant bushland surrounding Sand Plain Creek (Figures 7.1, 7.2). In these areas, the vegetation has experienced a decline in native species diversity due to clearing, as well as increased impact due to grazing by stock, and increased weed loading. Weed loading in these areas is increased due to a combination of greater availability of water, loamier soils, close proximity of pasture areas, and introduction of weed seeds through both grazing stock and from areas upstream after rain and flood events.

#### 4.2.4 Significance of Vegetation

No VTs mapped in the Study area are equivalent to any state-listed TECs or PECs, or any nationally-listed threatened ecological communities (DEC 2012c, d; DSEWPaC 2012b). Searches of the DEC TEC and PEC database have been undertaken, and results showed that no TECs or PECs are known from within the Study area (DEC 2011a), although two TECs are known within the vicinity of the Study area ('Assemblages of organic mound springs of the Three Springs area' and 'Ferricrete floristic community (Rocky Springs type)'), neither were recorded in the Study area.

Table 14 presents the local significance of each VT, as defined in Table 8. The local significance of all VTs except VTs 13b and 14 was ranked 4, with these VTs considered highly significant, as outlined below:

- VTs 1a, 1b, 2, 3, 4, 5, 6 and 9 each comprised less than 1 % of the Study area, and generally occurred on landforms and soils that were restricted in the Study area, including decaying breakaways, clay and sandy soils supporting *Eucalyptus accedens*, or in the vicinity of drainage lines.
- VTs 7a, 7b, 8, 10, 11, 12, and 13a, although comprising 1-10 % (or > 10 % in the case of VTs 10 and 13a) of the Study area, and occurring on landforms that were common and widespread locally, provided habitat for one or more taxa listed as T (DRF), as well as numerous Priority flora taxa, some of which were restricted to one or a few of these VTs.
- VT 14 was ranked 3, and was considered to be of moderate local significance; it comprises 1-10 % of the Study area and occurs on landforms that were locally uncommon and restricted, and while it is habitat for several Priority flora taxa, was not primary habitat for any of these taxa.
- VT 13b was ranked 2, and was not considered to be of local significance; it comprises 1-10 % of the Study area and occurs on landforms that were common and widespread locally, and while it is habitat for several Priority flora taxa, was not primary habitat for any of these taxa.

Following comparison of VTs described within the Study area with FCTs described in the NSSA by Woodman Environmental (2009b, c), it is apparent that some of the VTs described within the Study area may be equivalent to FCTs described in the NSSA. These are outlined below, however it should be noted that these are preliminary comparisons only, with statistical analysis required to confirm any inferred similarities:

- VTs 1a, 1b, 2 and 3 share some similarities with FCT 16a (Low Woodland of *Eucalyptus accedens* and/or *Eucalyptus* spp. over Shrubland dominated by

- Banksia* spp. and *Petrophile* spp. on sandy gravels on flats), however are not likely to be equivalent to FCT 16a based on understorey composition;
- VT 4 shares some similarities with FCT 10a (Heath to Thicket dominated by *Allocasuarina campestris* and/or *Banksia leptophylla* var. *leptophylla* on grey or brown sandy clay in drainage lines), however as the understorey components are quite different they are not likely to be equivalent;
  - VT 6 shares some similarities with FCT 18 (Thicket dominated by *Melaleuca viminea* subsp. *viminea*, with occasional *Eucalyptus loxophleba* subsp. *loxophleba* or *Eucalyptus camaldulensis* in clay flats), however the understorey composition is different and therefore they are unlikely to be equivalent;
  - VTs 7a and 7b appear to be equivalent to FCT 5e (Heath to Low Heath dominated by *Banksia* spp. and *Melaleuca* spp. over *Ecdeiocolea monostachya* on grey or brown sandy clay or gravel on lower slopes and plains);
  - VT 10 shares some similarities with FCT 2b (Heath to Thicket of mixed shrubs commonly including *Melaleuca leuropoma*, *Hibbertia hypericoides*, *Banksia shuttleworthiana* and *Allocasuarina humilis* over *Ecdeiocolea monostachya* on yellow or brown sand and sandy clay);
  - VTs 13a and 13b share some similarities with FCT 4a (Species rich Woodlands and Heaths on grey sand in the eastern portion of the Eneabba sandplain). Common species include *Conospermum boreale* subsp. *?boreale*, *Ecdeiocolea monostachya*, *Eremaea beaufortioides*, *Hakea polyanthema* and *Banksia candolleana*), however they occur on different landforms, and may not be equivalent; and
  - VT 14 shares some similarities with FCT 16b (Highly disturbed Scrub with *Calothamnus quadrifidus* on grey or brown sand in drainage lines), however is unlikely to be equivalent based on understorey composition.

However, without further statistical analysis, definitive correlations between VTs in the Study area and the NSSA FCTs cannot be made. Therefore these VTs may still be of regional significance.

It is unlikely that VTs 5, 8, 9, 11 and 12 are equivalent to FCTs present in the NSSA, although as previously mentioned, without further statistical analysis definitive correlations cannot be made to the NSSA FCTs. These VTs may be of regional significance.

The vegetation associations of the Tathra vegetation system that occur within the Study area (as defined by Shepherd *et al.* (2002)) are also well below their pre-European extents, with little of their current extent reserved (Table 1), particularly in reference to areas of Tathra-379, which currently has less than 30 % of the pre-European mapped extent remaining. This increases the likelihood of the VTs in the Study area being of regional significance.

Table 14: Local and Regional Conservation Significance of Vegetation Types

VT	Extent in Study area (ha) (% of Study area)	Presence of Significant Flora Taxa	Local Conservation Significance Comments	Local Conservation Significance Ranking of VT	Regional Conservation Significance
1a	25.42 (0.27)	<i>Micromyrtus rogeri</i> (P1) <i>Stylidium drummondianum</i> (P3) <i>Stylidium torticarpum</i> (P3)	VT comprises <1 % of Study area; Landforms on which VT occurs (sandy soils on slopes supporting <i>Eucalyptus accedens</i> ) locally uncommon and restricted CS flora taxa present not predominantly restricted to VT	4	Likely to be regionally uncommon and possibly restricted, based on species composition and landform/soil type, and level of clearing of Tathra vegetation system
1b	41.62 (0.44)	<i>Eucalyptus abdita</i> (P2) <i>Micromyrtus rogeri</i> (P1) <i>Stylidium drummondianum</i> (P3) <i>Stylidium torticarpum</i> (P3) <i>Synaphea oulopha</i> (P1)	VT comprises <1 % of Study area; Landforms on which VT occurs (clay soils on mid-upper slopes supporting <i>Eucalyptus accedens</i> ) locally uncommon and restricted CS flora taxa present not predominantly restricted to VT	4	Likely to be regionally uncommon and possibly restricted, based on species composition and landform/soil type, and level of clearing of Tathra vegetation system
2	5.66 (0.06)	-	VT comprises <1 % of Study area; Landforms on which VT occurs (sandy loams on flats or slopes supporting <i>Eucalyptus accedens</i> and/or <i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i> ) locally uncommon and restricted CS flora taxa not known in VT	4	Likely to be regionally uncommon and possibly restricted, based on species composition and landform/soil type, and level of clearing of Tathra vegetation system
3	21.52 (0.23)	<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i> (P4) <i>Haemodorum loratum</i> (P3) <i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3) <i>Stylidium torticarpum</i> (P3)	VT comprises <1 % of Study area; Landforms on which VT occurs (clay soils on flats near breakaways supporting <i>Eucalyptus accedens</i> ) locally uncommon and restricted CS flora taxa present not predominantly restricted to VT	4	Likely to be regionally uncommon and possibly restricted, based on species composition and landform/soil type, and level of clearing of Tathra vegetation system
4	47.89 (0.50)	<i>Malleostemon decipiens</i> (P1) (PH) <i>Stylidium torticarpum</i> (P3) <i>Thryptomene</i> sp. <i>Mingenew</i> (Diels & Pritzel 332) (P3) (PH)	VT comprises <1 % of Study area; Landforms on which VT occurs (sands to loams on flats near seasonal creeks) locally uncommon and restricted CS flora taxon present which is predominantly restricted to VT	4	Likely to be regionally uncommon and possibly restricted, based on species composition and landform/soil type, and level of clearing of Tathra vegetation system

VT	Extent in Study area (ha) (% of Study area)	Presence of Significant Flora Taxa	Local Conservation Significance Comments	Local Conservation Significance Ranking of VT	Regional Conservation Significance
5	39.69 (0.42)	<i>Acacia isoneura</i> subsp. <i>isoneura</i> (P3) <b>(PH)</b> <i>Malleostemon decipiens</i> (P1) <b>(PH)</b> <i>Thryptomene</i> sp. <i>Mingenew</i> (Diels & Pritzel 332) (P3)	VT comprises <1 % of Study area; Landforms on which VT occurs (sands to clay-loams within and on banks of seasonal creeks) locally uncommon and restricted CS flora taxa present which are predominantly restricted to VT	4	Likely to be regionally uncommon and possibly restricted, based on species composition and landform/soil type, and level of clearing of Tathra vegetation system
6	3.20 (0.03)	-	VT comprises <1 % of Study area; Landforms on which VT occurs (clay on slopes above seasonal creeks) locally uncommon and restricted CS flora taxa not known in VT	4	Likely to be regionally uncommon and possibly restricted, based on species composition and landform/soil type, and level of clearing of Tathra vegetation system
7a	799.11 (8.37)	<i>Allocasuarina grevilleoides</i> (P3) <b>(PH)</b> <i>Banksia scabrella</i> (P4) <b>(PH)</b> <i>Calytrix chrysantha</i> (P4) <b>(PH)</b> <i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i> (P4) <b>(PH)</b> <i>Haemodorum loratum</i> (P3) <b>(PH)</b> <i>Hemiandra</i> sp. <i>Eneabba</i> (H. Demar 3687) (P3) <b>(PH)</b> <i>Lasiopetalum ogilvieanum</i> (P1) <i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3) <i>Micromyrtus rogeri</i> (P1) <i>Paracaleana dixonii</i> (T (DRF)) <i>Persoonia filiformis</i> (P2) <i>Persoonia rudis</i> (P3) <i>Schoenus badius</i> (P2) <i>Stylidium drummondianum</i> (P3) <i>Synaphea aephyrsa</i> (P3) <b>(PH)</b> <i>Synaphea oulopha</i> (P1) <b>(PH)</b> <i>Thelymitra stellata</i> (T (DRF)) <i>Thryptomene</i> sp. <i>Mingenew</i> (Diels & Pritzel 332) (P3)	VT comprises 1-10 % of Study area; Landforms on which VT occurs (slopes and crests with laterite) locally common and widespread; Habitat for taxon listed as T (DRF) and numerous Priority flora taxa, some which are potentially restricted to this VT.	4	Possibly regionally common and widespread, however may be of regional significance based on level of clearing of Tathra vegetation system

VT	Extent in Study area (ha) (% of Study area)	Presence of Significant Flora Taxa	Local Conservation Significance Comments	Local Conservation Significance Ranking of VT	Regional Conservation Significance
7b	663.65 (6.95)	<i>Allocasuarina grevilleoides</i> (P3) <i>Banksia fraseri</i> ?var. <i>crebra</i> (P3) (PH) <i>Banksia scabrella</i> (P4) (PH) <i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i> (P4) <i>Eucalyptus macrocarpa</i> x <i>pyriformis</i> (P3) <i>Haemodorum loratum</i> (P3) <i>Lasiopetalum ogilvieanum</i> (P1) <i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3) <i>Micromyrtus rogeri</i> (P1) <i>Paracaleana dixonii</i> (T (DRF)) (PH) <i>Persoonia filiformis</i> (P2) <i>Persoonia rudis</i> (P3) <i>Stylidium drummondianum</i> (P3) <i>Stylidium torticarpum</i> (P3) <i>Synaphea aephynsa</i> (P3) <i>Synaphea oulopha</i> (P1) <i>Thelymitra stellata</i> (T (DRF))	VT comprises 1-10 % of Study area; Landforms on which VT occurs (slopes and crests with laterite) locally common and widespread; Habitat for taxon listed as T (DRF) and numerous Priority flora taxa, some which are potentially restricted to this VT.	4	Possibly regionally common and widespread, however may be of regional significance based on level of clearing of Tathra vegetation system



VT	Extent in Study area (ha) (% of Study area)	Presence of Significant Flora Taxa	Local Conservation Significance Comments	Local Conservation Significance Ranking of VT	Regional Conservation Significance
8	443.93 (4.65)	<i>Allocasuarina grevilleoides</i> (P3) <b>(PH)</b> <i>Banksia scabrella</i> (P4) <i>Eucalyptus abdita</i> (P2) <b>(PH)</b> <i>Eucalyptus crispata</i> (T (DRF)) <b>(PH)</b> <i>Eucalyptus leprophloia</i> (T (DRF)) <i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i> (P4) <i>Eucalyptus macrocarpa</i> x <i>pyriformis</i> (P3) <i>Haemodorum loratum</i> (P3) <i>Lasiopetalum ogilvieanum</i> (P1) <i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3) <b>(PH)</b> <i>Micromyrtus rogeri</i> (P3) <b>(PH)</b> <i>Paracaleana dixonii</i> (T (DRF)) <i>Persoonia rudis</i> (P3) <i>Stylidium drummondianum</i> (P3) <b>(PH)</b> <i>Stylidium torticarpum</i> (P3) <b>(PH)</b> <i>Synaphea aephynsa</i> (P3) <b>(PH)</b> <i>Synaphea oulopha</i> (P1) <b>(PH)</b> <i>Thelymitra stellata</i> (T (DRF)) <b>(PH)</b>	VT comprises 1-10 % of Study area; Landforms on which VT occurs (crests and breakaways with laterite) relatively locally common and widespread; Habitat for several taxa listed as T (DRF) and numerous Priority flora taxa, some of which are predominantly restricted to this VT	4	Likely to be regionally uncommon and possibly restricted, based on species composition and landform/soil type, level of clearing of Tathra vegetation system
9	50.2 (0.53)	<i>Haemodorum loratum</i> (P3) <i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3) <i>Micromyrtus rogeri</i> (P1) <i>Stylidium drummondianum</i> (P3) <i>Stylidium torticarpum</i> (P3) <i>Synaphea aephynsa</i> (P3) <i>Synaphea oulopha</i> (P1)	VT comprises <1 % of Study area; Landforms on which VT occurs (decaying breakaway slopes and associated flats) locally uncommon and restricted; Habitat for several Priority flora taxa, although none are restricted to this VT	4	Likely to be regionally uncommon and possibly restricted, based on species composition and landform/soil type, and level of clearing of Tathra vegetation system

VT	Extent in Study area (ha) (% of Study area)	Presence of Significant Flora Taxa	Local Conservation Significance Comments	Local Conservation Significance Ranking of VT	Regional Conservation Significance
10	1032.53 (10.82)	<i>Banksia scabrella</i> (P4) ( <b>PH</b> ) <i>Eucalyptus crispata</i> (T (DRF)) <i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i> (P4) ( <b>PH</b> ) <i>Haemodorum loratum</i> (P4) ( <b>PH</b> ) <i>Hemiandra</i> sp. Eneabba (H. Demarz 3687) (P3) <i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3) <i>Micromyrtus rogeri</i> (P1) <i>Paracaleana dixonii</i> (T (DRF)) ( <b>PH</b> ); <i>Persoonia filiformis</i> (P3) ( <b>PH</b> ) <i>Persoonia rudis</i> (P3) <i>Schoenus badius</i> (P2) <i>Schoenus griffinianus</i> (P3) <i>Stylidium drummondianum</i> (P3) ? <i>Stylidium carnosum</i> subsp. <i>Narrow leaves</i> (J.A. Wege 490) (P1) <i>Synaphea aephyntsa</i> (P3)	VT comprises >10 % of Study area; Landforms on which VT occurs (slopes and valley floors with yellow sand) locally common and widespread; Habitat for taxon listed as T (DRF) and numerous Priority flora taxa, some of which are predominantly known from this VT	4	Possibly regionally common and widespread, however may be of regional significance based on level of clearing of Tathra vegetation system

VT	Extent in Study area (ha) (% of Study area)	Presence of Significant Flora Taxa	Local Conservation Significance Comments	Local Conservation Significance Ranking of VT	Regional Conservation Significance
11	538.35 (5.64)	<i>Banksia scabrella</i> (P4) <i>Eucalyptus abdita</i> (P2) (potential location) <i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i> (P4) <i>Eucalyptus macrocarpa</i> x <i>pyriformis</i> (P3) <i>Guichenotia impudica</i> (P3) (PH) <i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3) <i>Micromyrtus rogeri</i> (P1) <i>Paracaleana dixonii</i> (T (DRF)) <i>Persoonia rudis</i> (P3) <i>Stylidium drummondianum</i> (P3) <i>Synaphea oulopha</i> (P1) <i>Thelymitra stellata</i> (T (DRF))	VT comprises 1-10 % of Study area; Landforms on which VT occurs (crests and slopes with yellow sand) relatively locally common and widespread; Habitat for taxon listed as T (DRF) and numerous Priority flora taxa, one of which is predominantly known from this VT	4	Likely to be regionally uncommon and possibly restricted, based on species composition and landform/soil type, level of clearing of Tathra vegetation system
12	243.32 (2.55)	<i>Banksia scabrella</i> (P4) <i>Beyeria gardneri</i> (P3) (PH) <i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i> (P4) <i>Haemodorum loratum</i> (P3) <i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3) <i>Micromyrtus rogeri</i> (P1) <i>Paracaleana dixonii</i> (T (DRF)) <i>Persoonia rudis</i> (P3) <i>Synaphea aephynsa</i> (P3)	VT comprises 1-10 % of the Study area Landforms on which VT occurs (sand to sandy loam on mid to upper slopes) relatively locally common and widespread; Habitat for taxon listed as T (DRF) and numerous Priority flora taxa, one of which is predominantly known from this VT	4	Possibly regionally common and widespread, however may be of regional significance based on level of clearing of Tathra vegetation system

VT	Extent in Study area (ha) (% of Study area)	Presence of Significant Flora Taxa	Local Conservation Significance Comments	Local Conservation Significance Ranking of VT	Regional Conservation Significance
13a	1740.14 (18.23)	<i>Allocasuarina grevilleoides</i> (P3) <i>Banksia scabrella</i> (P4) <b>(PH)</b> <i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i> (P4) <i>Haemodorum loratum</i> (P3) <i>Hemiandra</i> sp. Eneabba (H. Demarz 3687) (P3) <b>(PH)</b> <i>Lasiopetalum ogilvieanum</i> (P1) <b>(PH)</b> <i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3) <i>Paracaleana dixonii</i> (T (DRF)) <b>(PH)</b> <i>Persoonia filiformis</i> (P2) <i>Persoonia rudis</i> (P3) <i>Schoenus griffinianus</i> (P3) <b>(PH)</b> <i>Stylidium drummondianum</i> (P3) <i>Stylidium pseudocaespitosum</i> (P2) <b>(PH)</b> <i>Synaphea aephyrsa</i> (P3) <i>Synaphea oulopha</i> (P1) <i>Thelymitra stellata</i> (T (DRF)) <i>Verticordia luteola</i> var. <i>luteola</i> (P3) <b>(PH)</b>	VT comprises >10 % of Study area; Landforms on which VT occurs (slopes with grey sand) locally common and widespread; Habitat for taxon listed as T (DRF) and numerous Priority flora taxa, some of which are predominantly known from this VT	4	Possibly regionally common and widespread, however may be of regional significance based on level of clearing of Tathra vegetation system
13b	547.55 (5.74)	<i>Banksia scabrella</i> (P4) <b>(PH)</b> <i>Haemodorum loratum</i> (P3) <i>Hemiandra</i> sp. Eneabba (H. Demarz 3687) (P3) <i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3) <i>Micromyrtus rogeri</i> (P1) <i>Schoenus badius</i> (P2) <i>Stylidium drummondianum</i> (P3) <i>Synaphea oulopha</i> (P1)	VT comprises 1-10 % of Study area; Landforms on which VT occurs (slopes and depressions with grey to brown sand) locally common and widespread Habitat for CS flora taxa (Priority flora), however not the preferred habitat for these taxa	2	Possibly regionally common and widespread, however may be of regional significance based on level of clearing of Tathra vegetation system

VT	Extent in Study area (ha) (% of Study area)	Presence of Significant Flora Taxa	Local Conservation Significance Comments	Local Conservation Significance Ranking of VT	Regional Conservation Significance
14	166.89 (1.75)	<i>Banksia scabrella</i> (P4) <i>Schoenus badius</i> (P2)	VT comprises 1-10 % of Study area; Landforms on which VT occurs (drainage lines and depressions) locally uncommon and restricted Habitat for CS flora taxa (Priority flora), however not the preferred habitat for these taxa	3	Likely to be regionally uncommon and possibly restricted, based on species composition and landform/soil type, and level of clearing of Tathra vegetation system

Note: (PH) refers to preferred habitat for that particular taxon based on known location records within the Study area.

## 5. DISCUSSION

### 5.1 FLORA OF THE STUDY AREA

A total of 535 discrete vascular flora taxa and one known hybrid were recorded within the Study area in 2011 and 2012. This total, while being less than the totals recorded in the Tiwest Dongara survey area and the Iluka Project Area (543 and 940 taxa respectively) (Woodman Environmental 2009b, c), is very high given the relatively small size and relatively low diversity of habitats in the Study area. Both the Tiwest Dongara survey area and the Iluka Project Area were much larger (more than double the size) of the Study area, and covered a much wider variety of habitats (Woodman Environmental 2009b, c). However, the high total was not unexpected, given the location of the Study area in the Northern Sandplains region of Western Australia, an area internationally recognised as being rich in species diversity and endemism (Desmond & Chant 2001).

Thirty confirmed and two probable listed conservation significant flora taxa are known from the Study area. Of these, three confirmed taxa listed as T (DRF) are known from the Study area (*Eucalyptus crispata*, *Paracaleana dixonii* and *Thelymitra stellata*). A fourth taxon listed as T (DRF), *Eucalyptus leprophloia*, is known from historical records in the Study area (DEC data), but was not recorded in either 2011 or 2012 despite specific searching in historical locations of this taxon. In addition, one location of *Eucalyptus ?crispata* was recorded, where material collected could not be further identified. This location should be treated as if it represents *E. crispata* until further material can be collected to determine its true taxonomic status. These taxa are protected under the *Wildlife Conservation Act 1950* and the EPBC Act, and are subject to ministerial permits if individuals are proposed to be impacted.

The remaining conservation significant flora taxa known from the Study area consist of 25 confirmed, two probable and one hybrid listed Priority flora taxa. Of these, 23 confirmed, one probable and one hybrid Priority flora taxa were recorded in 2011 - 2012, with two confirmed and one probable Priority flora taxa known from records from previous surveys undertaken in the Study area. The populations in the Study area of many of these taxa, particularly those listed as P1 and P2, were ranked as being of 'High' significance to the overall conservation significance of each taxon.

Opportunistic searching was carried out for these conservation significant taxa in 2012, within the Study area located in VCL and also within remnant bushland on private property which were unable to be accessed in 2011. Despite intense survey for *Paracaleana dixonii* (T (DRF)), as individuals do not flower each year, in combination with it occurring across a relatively wide range of habitats at low densities, it is likely that not all individuals of this taxon have been recorded. *Thelymitra stellata* (T (DRF)) is more habitat specific, however not all areas of laterite were intensively searched and therefore some locations of this taxon likewise may not have been recorded.

It is considered that all locations of *Eucalyptus crispata* have been recorded in the Study area. This is due to the relative ease of survey (in comparison to *Paracaleana dixonii* and *Thelymitra stellata*) of this taxon, due to its large size and habit, and targeted searching within its known preferred habitat. It is considered unlikely that

*Eucalyptus leprophloia* occurs within the Study Area. Both historic records of locations of this taxon were surveyed, as well as appropriate habitat (which is similar to *E. crispata*), and no individuals were recorded.

A number of collections made in the Study area in 2011 and 2012 could not be positively identified, and may represent undescribed taxa. Two such taxa in particular, *Eucalyptus* sp. (unidentified 2) and *Leucopogon* sp., are considered likely to be undescribed, and therefore likely to be of conservation significance. Likewise, both *Cryptandra intermedia* (atypical variant) and *Acacia ?idiomorpha* are possibly also new taxa. Although these taxa were surveyed for during the 2012 season, it is recommended that further survey be conducted to collect additional material of these entities, to allow for an assessment of their taxonomic and conservation status to be made. As a precaution, further searching for these taxa should also be conducted prior to any Project works being conducted, to determine their distributions and population sizes. This will allow for any potential impacts to be avoided where practical, and provide context for potential impacts if they cannot feasibly be avoided.

Twenty two introduced (weed) taxa were recorded in the Study area in 2011 - 2012. Most were recorded from very few locations, and were generally restricted to areas of *Eucalyptus accedens* and moist sites, especially in areas of relatively degraded vegetation on private property. None are considered to be particularly serious environmental weeds, excluding *Echium plantagineum* which is a listed Declared Pest under the BAM Act (Department of Agriculture and Food 2013). The prevalence of weeds in areas of *E. accedens* is likely to be a combination of these areas being refuges for kangaroos and birds, which may disperse weed propagules through their faeces or on their bodies, and the nature of these areas as being naturally sparsely vegetated. Moister areas are likely to collect more weed propagules that travel with surface sheet flow, as well as introduction through cattle and sheep grazing on private property.

No areas of vegetation currently infested, or altered by historical introduction of *Phytophthora cinnamomi* (Dieback) were observed in the Study Area (Glevan 2012). A Hygiene Management Plan should be developed to both prevent the introduction of *P. cinnamomi* and to manage any further introduction of weed propagules into the Study Area. It is also recommended that a weed monitoring programme be considered, to ensure that any new infestations, particularly in disturbance areas such as seismic lines, are identified and can be controlled or eradicated.

## 5.2 VEGETATION OF THE STUDY AREA

Fourteen VTs were mapped in the Study area, from four super-groups. Three of these VTs were divided further in two sub-types each. The four super-groups were based primarily on soil types, and usually associated topographical location, within the Study area, with distinct differences in species composition. The diversity of VTs in the Study area is considered to be moderate, as there is a moderate variety of habitat types, however the Study area is relatively small compared to similar study areas nearby, limiting the number of habitat types to an extent. The VTs within each super-group are considered to be relatively floristically different, an indication of the diversity of the Study area in terms of species composition.

The condition of the majority of the vegetation was ranked as '1', indicating pristine condition over the vast majority of the Study area. There were minor impacts to some areas of vegetation as a result of weed taxa, which were restricted to moist areas and areas of *Eucalyptus accedens*. These areas were mapped as '2' (Excellent) or '1/2' (Pristine to Excellent). The vegetation on remnant bushland areas on private property was in worse condition, ranging from '2' (Excellent) to '5' (Poor), with much cleared land also mapped.

All of the VTs mapped in the Study area, excluding VT 13b, are considered to be of high local conservation significance, primarily because of their limited extent in the Study area (less than 1 % of the total Study area) and their occurrence on landforms that were uncommon and restricted in the Study area. However, several VTs, despite being widespread and relatively common in the Study area, are habitat for taxa listed as T (DRF), or restricted Priority flora or undescribed taxa, and hence were also considered to be of high local conservation significance.

No VTs mapped in the Study area are equivalent to any state-listed TECs or PECs, or any nationally-listed threatened ecological communities (DEC 2012c, d; DSEWPaC 2012b).

A number of VTs, namely VTs 5, 8, 9, 11 and 12 may also be of regional conservation significance, as they do not appear to be equivalent to any FCTs mapped in the nearby NSSA by Woodman Environmental (2009b, c). It is therefore important that the locations of these VTs be considered when planning the location of any future disturbance, to avoid impacts to these VTs, or minimise impacts to these VTs as much as is practical.

The remaining VTs mapped in the Study area (1a, 1b, 2, 3, 4, 6, 7a, 7b, 10, 13a, 13b, 14) may be equivalent to FCTs in the NSSA, however statistical analysis of floristic data would need to be undertaken of to determine this. However, they may also be of regional significance as they are part of vegetation associations in the Tathra vegetation system, much of which has been cleared for agriculture. It is therefore also important that any future disturbance to these VTs in the Study area also be minimised as much as is practical.

Notwithstanding the regional significance of individual VTs, the Study area represents an excellent example of a large, intact block of remnant vegetation in virtually pristine condition within an area that has largely been cleared for agriculture. It also contains a number of different habitat types, and a rich variety of vascular plant taxa, including many of conservation significance. On this basis alone, it is important that the integrity of the Study area be considered when planning any proposed disturbance, and that rehabilitation of any disturbance is undertaken promptly using appropriate techniques.



## 6. RECOMMENDATIONS

The following recommendations have been made with regard to potential disturbance associated with the West Erregulla Project:

- Known locations of all Threatened (DRF) flora taxa within the Study area should be avoided by works planned to be undertaken in the area if possible;
- Prior to works being undertaken within the Study area, a Permit to Take should be applied for with regard to incidental taking of *Paracaleana dixonii* (T (DRF)) and *Thelymitra stellata* (T (DRF)), to enable accidental clearing of individuals which have so far not been recorded within the Study area;
- Further material of *Eucalyptus ?crispata* (T (DRF)), *Eucalyptus ?abditata* (P2), *Banksia fraseri ?var. crebra*, *Guichenotia impudica* (both P3), *Cryptandra intermedia* (atypical variant), *Eucalyptus* sp. (unidentified 2), *Leucopogon* sp. and *Acacia ?idiomorpha* (all potentially undescribed) should be collected to determine both taxonomic and conservation status, prior to any ground disturbing activities taking place;
- A *Phytophthora cinnamomi* and weed hygiene management plan should be developed prior to any works being undertaken, to prevent the introduction and/or spread of disease or weeds in the Study area. A weed monitoring programme should also be considered, to ensure that any new infestations, particularly in disturbance areas such as seismic lines, are identified and can be controlled or eradicated;
- The locations of the locally significant VTs (1a – 13a, 14) and potentially regionally significant VTs (5, 8, 9, 11, 12) be considered when planning the location of any future disturbance, to minimise impacts to these VTs as much as is practical;
- An assessment of impacts to flora and vegetation should be conducted when final disturbance footprints are available.

## 7. REFERENCES

- Australian Weeds Committee (2012)  
*Weeds of National Significance*. Available: <http://www.weeds.org.au/WoNS/>.  
Accessed 29/6/2012.
- Beard, J. S. (1976)  
*Vegetation Survey of Western Australia: Murchison 1:1 000 000. Map and Explanatory Notes to Sheet 6*. Published by University of Western Australia Press, Perth.
- Beard, J. S. (1990)  
*Plant Life of Western Australia*. Published by Kangaroo Press, NSW.
- Belbin, L. (1989)  
*PATN Technical Reference*. CSIRO Division of Wildlife and Ecology, P.O. Box 84, Lyneham, ACT, 2602.
- Bureau of Meteorology (2012a)  
*Climate Statistics for Australian Locations – Eneabba*. Available: [http://www.bom.gov.au/climate/averages/tables/cw\\_008225.shtml](http://www.bom.gov.au/climate/averages/tables/cw_008225.shtml). Sourced 28<sup>th</sup> December, 2012.
- Bureau of Meteorology (2012b)  
*Daily Weather Observations for Australian Locations – Eneabba*. Available: <http://www.bom.gov.au/climate/dwo/>. Sourced 16<sup>th</sup> March, 2012.
- Commonwealth of Australia (2012)  
*Interim Biogeographic Regionalisation for Australia, Version 7*. Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC). Available: <http://www.environment.gov.au/parks/nrs/science/bioregion-framework/ibra/index.html#ibra>
- Department of Agriculture and Food (2013)  
List of Declared Pests. Available: <http://www.biosecurity.wa.gov.au/western-australian-organism-list-waol>. Accessed September, 2013.
- CALM (1999)  
*Environmental Weed Strategy for Western Australia*. Department of Conservation and Land Management, Perth.
- DEC (2010a)  
*Definitions, Categories and Criteria for Threatened and Priority Ecological Communities*. December 2010. Available: [www.dec.wa.gov.au](http://www.dec.wa.gov.au)
- DEC (2010b)

*Threatened and Priority Flora Report Form – Field Manual*. Department of Environment and Conservation Species and Communities Branch, Kensington, January 2010.

DEC (2011a)

Interrogation of the Department of Environment and Conservation's Threatened and Priority Ecological Communities Databases, performed 16<sup>th</sup> March 2011. DEC Ref: 26-0311EC

DEC (2011b)

Interrogation of the Department of Environment and Conservation's W.A Herbarium specimen database, Threatened and Priority Flora database and Threatened and Priority flora list, performed 17<sup>th</sup> March 2011. DEC Ref: 34-0311FL.

DEC (2012a)

*FloraBase*. Available: <http://florabase.dec.wa.gov.au>. Sourced December 2012.

DEC (2012b)

*NatureMap*. Available: <http://naturemap.dec.wa.gov.au>. Sourced December 2012.

DEC (2012c)

*List of Threatened Ecological Communities Endorsed by the Western Australian Minister for the Environment*. Species & Communities Branch, Department of Environment and Conservation (Correct to April 2012). Available: [www.dec.wa.gov.au](http://www.dec.wa.gov.au)

DEC (2012d)

Priority Ecological Communities For Western Australia Version 17. Species and Communities Branch, Department of Environment and Conservation, 13 April 2012. Available: [www.dec.wa.gov.au](http://www.dec.wa.gov.au)

DEC (2012e)

*Department of Environment and Conservation Threatened and Priority Flora List*. Current 24<sup>th</sup> April 2012.

DSEWPaC (2012a)

Protected Matters Search Tool, queried 14/03/2012, report reference 9IV7KX. Available: <http://www.environment.gov.au/epbc/pmst/index.html>

DSEWPaC (2012b)

*EPBC Act List of Threatened Ecological Communities*. Available: <http://www.environment.gov.au/cgi-bin/sprat/public/publiclookupcommunities.pl>. Sourced: 18th April 2012.

Desmond, A. and Chant, A. (2001)

*Geraldton Sandplain 3 (GS3 – Lesueur Sandplain Subregion)*. A Biodiversity Audit of Western Australia's 53 Biogeographical Subregions in 2002.

Dufrene, M. and Legendre, P. (1997)

Species Assemblages and Indicator Species: The need for a flexible asymmetrical approach. In: *Ecological Monographs* **67**: 345-366.

EPA (2004)

*Guidance for the Assessment of Environmental Factors – Terrestrial Flora and Vegetation surveys for Environmental Impact Assessment in Western Australia, No. 51, June 2004.* Unpublished report produced by the Environmental Protection Authority, Western Australia.

Executive Steering Committee for Australian Vegetation Information (ESCAVI) (2003)

*Australian Vegetation Attribute Manual: National Vegetation Information System, Version 6.0.* Department of the Environment and Heritage, Canberra.

Gleван Consulting (2012)

*Phytophthora Dieback Occurrence Assessment.* Unpublished report (Rev A) prepared for Warrego Energy Ltd and Woodman Environmental Consulting Pty Ltd.

Gibson, N., Keighery, B.J., Keighery, G.J., Burbidge, A.H. & Lyons, M.N. (1994). *A Floristic Survey of the southern Swan Coastal Plain.* Unpublished Report for the Australian Heritage commission prepared by Department of Conservation and Land Management and the Conservation Council of Western Australia (Inc.).

Government of Western Australia (2011)

*2011 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report).* Accessed February 2012. WA Department of Environment and Conservation, Perth.

Government of Western Australia (2013a)

*Biosecurity and Agriculture Management Regulations 2013.* Version 00-b0-00, 1<sup>st</sup> May 2013.

Government of Western Australia (2013b)

*Biosecurity and Agriculture Management Act 2007.* Version 00-o0-00, 1<sup>st</sup> May 2013.

Hoffman, N. and Brown, A. (2011)

*Orchids of South-West Australia (3<sup>rd</sup> Edition).* University of Western Australia Press, Nedlands Western Australia.

Hussey, B.M.J, Keighery, G.J., Dodd, J. Lloyd, S.G. and Cousens, R.D. (2007)

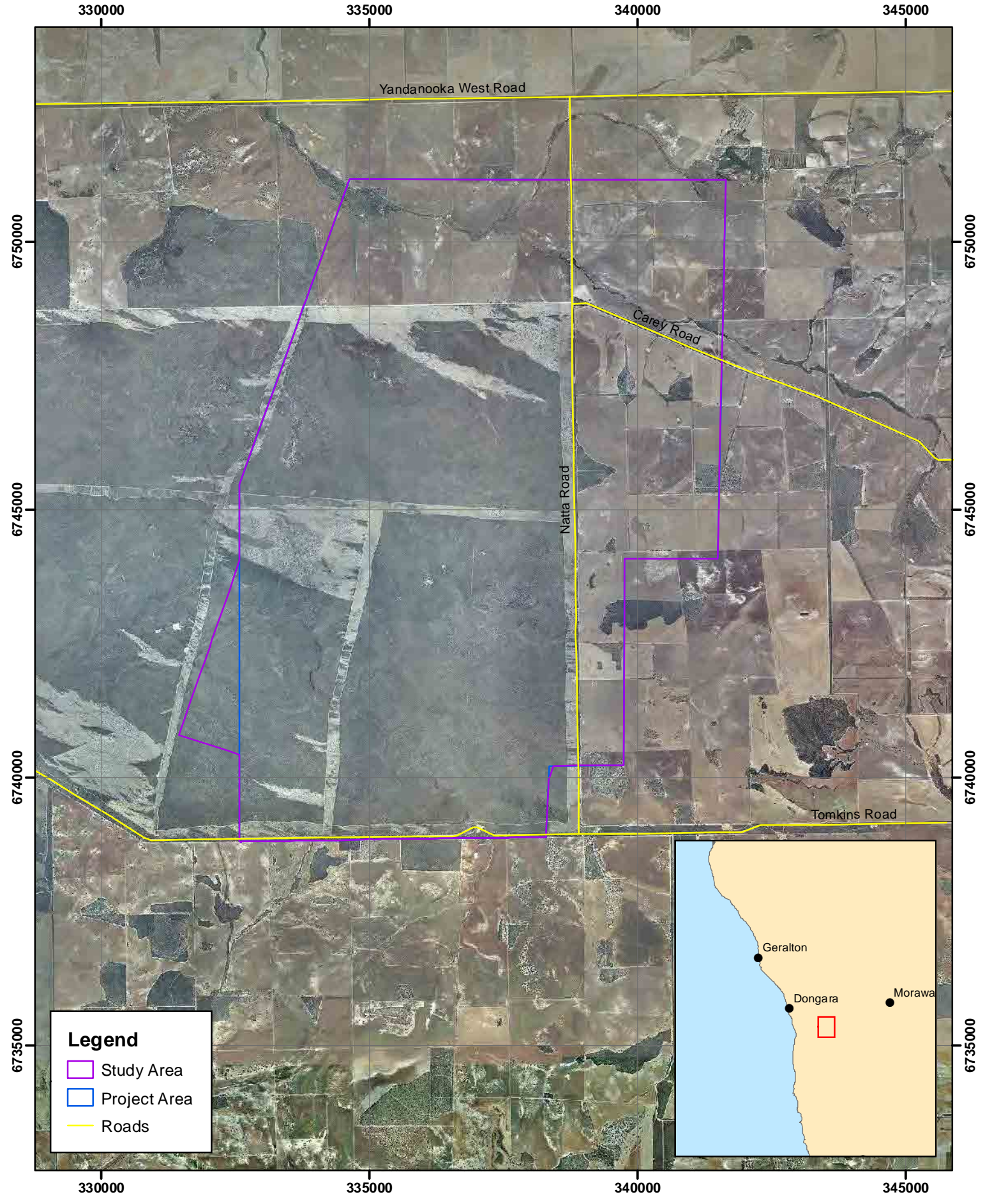
*Western Weeds – A Guide to the Weeds of Western Australia (2<sup>nd</sup> Ed.).* The Weeds Society of Western Australia (Inc.), Victoria Park, Western Australia.

Keighery, B.J. (1994)

*Bushland Plant Survey: a Guide to Plant Community Survey for the Community.* Wildflower Society of WA (Inc.), Nedlands, Western Australia.

- Markey, A. S. & Dillon, S. J. (2008)  
Flora and Vegetation of the Banded Ironstone Formations of the Yilgarn Craton: The Central Talling Land System. In: *Conservation Science W. Aust.* **7** (1): 121–149 (2008).
- McCune, B. and Mefford, M.J (1999)  
*PC-Ord. Multivariate Analysis of Ecological Data, Version 4.* MjM Software Design, Glenden Beach, Oregon USA.
- Shepherd, D., Beeston, G and Hopkins, A. (2002)  
Native Vegetation in Western Australia. Extent, Type and Status. *Resource Management Technical Report 249.* Department of Agriculture, South Perth.
- Sneath, P.H.A, and Sokal, R.R. (1973)  
*Numerical Taxonomy: The Principles and Practice of Numerical Classification.* Published by Freeman, San Fransisco.
- Woodman Environmental Consulting Pty Ltd (2004)  
*Denison 3D Seismic Survey, Flora and Vegetation Study.* Unpublished report (Denison 3D Veg Mapping) prepared for ARC Energy Ltd and Origin Energy, December 2004.
- Woodman Environmental Consulting Pty Ltd (2009a)  
*West Erregulla-2 Well Site Flora and Vegetation Assessment.* Unpublished report (Warrego 08-46-01) prepared for Warrego Energy, April 2009.
- Woodman Environmental Consulting Pty Ltd (2009b)  
*Dongara Tenements Flora and Vegetation Studies, Regional FCT Analysis.* Unpublished report (Tiwest 07-36) prepared for Tiwest Pty Ltd, October 2009.
- Woodman Environmental Consulting Pty Ltd (2009c)  
*Flora and Vegetation of the Proposed Eneabba – Moonyoonooka 330kv Transmission Line, Supplementary Field Survey 2008.* Unpublished report (WPC 08-21) prepared for Western Power, February 2009.
- Woodman Environmental Consulting Pty Ltd (2009d)  
*Environmental Review and Management Programme – Flora and Vegetation Studies.* Unpublished report (Iluka07-19-01) prepared for Iluka Resources Ltd, April 2009.
- Woodman Environmental Consulting Pty Ltd (2010)  
*Flora and Vegetation of the Proposed Eneabba – Moonyoonooka 330kv Transmission Line, Supplementary Field Survey 2008, 2009 Survey Addendum Report.* Unpublished report (WP09-46) prepared for Western Power, February 2010.
- Woodman Environmental Consulting Pty Ltd (2012)  
*West Erragulla Project Flora and Vegetation Assessment.* Unpublished report (Warrego11-48-01 Rev 0) prepared for Warrego Energy, June 2012.





**Legend**

- Study Area
- Project Area
- Roads



**Warrego Energy Limited  
West Erregulla Project  
Project area and Study area  
Location**

**Figure  
1**

This map should only be used in conjunction with WEC report Warrego12-33-01.

Revision: A - December 2012

Grid: MGA Zone 50

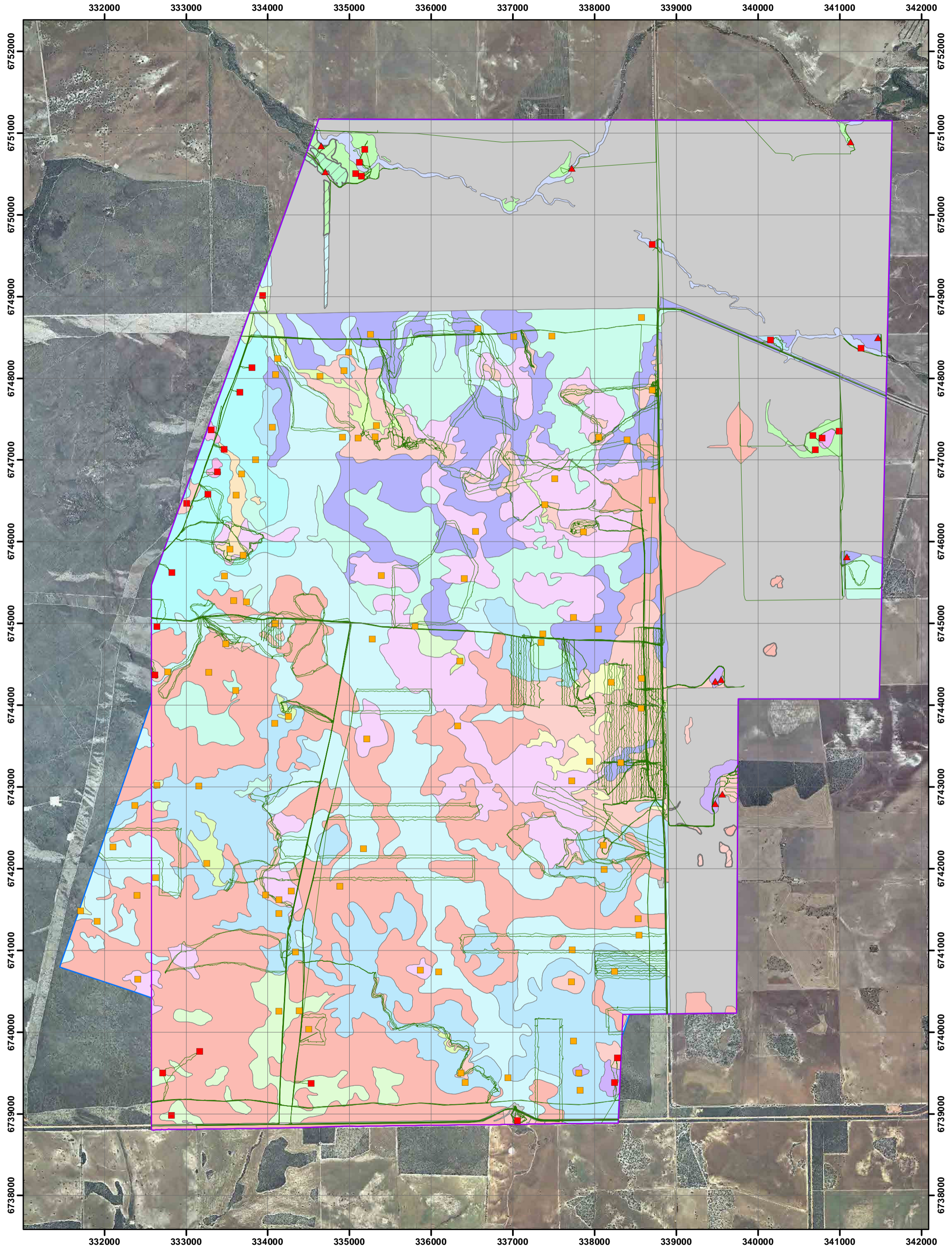
Author: David Coultas

WEC Ref: Warrego12-33-01

Filename: Warrego12-33-01-f01.mxd

Scale: 1:90,000 (A4)





This map should only be used in conjunction with WEC report Warrego12-33-01.

**Warrego Energy Limited  
West Erregulla Project  
Quadrat and Site Locations  
and Track Logs**

Revision: A - December 2012

Author: David Coultas  
WEC Ref: Warrego12-33-01  
Filename: Warrego12-33-01-f03.mxd

Scale: 1:40,000 (A3) Grid: MGA Zone 50

**Figure  
3**



## Legend



- Quadrats (2011)
- Quadrats (2012)
- ▲ Detailed Recording Sites (2012)
- Track Logs
- Project Area Boundary
- Study Area

### Vegetation Types

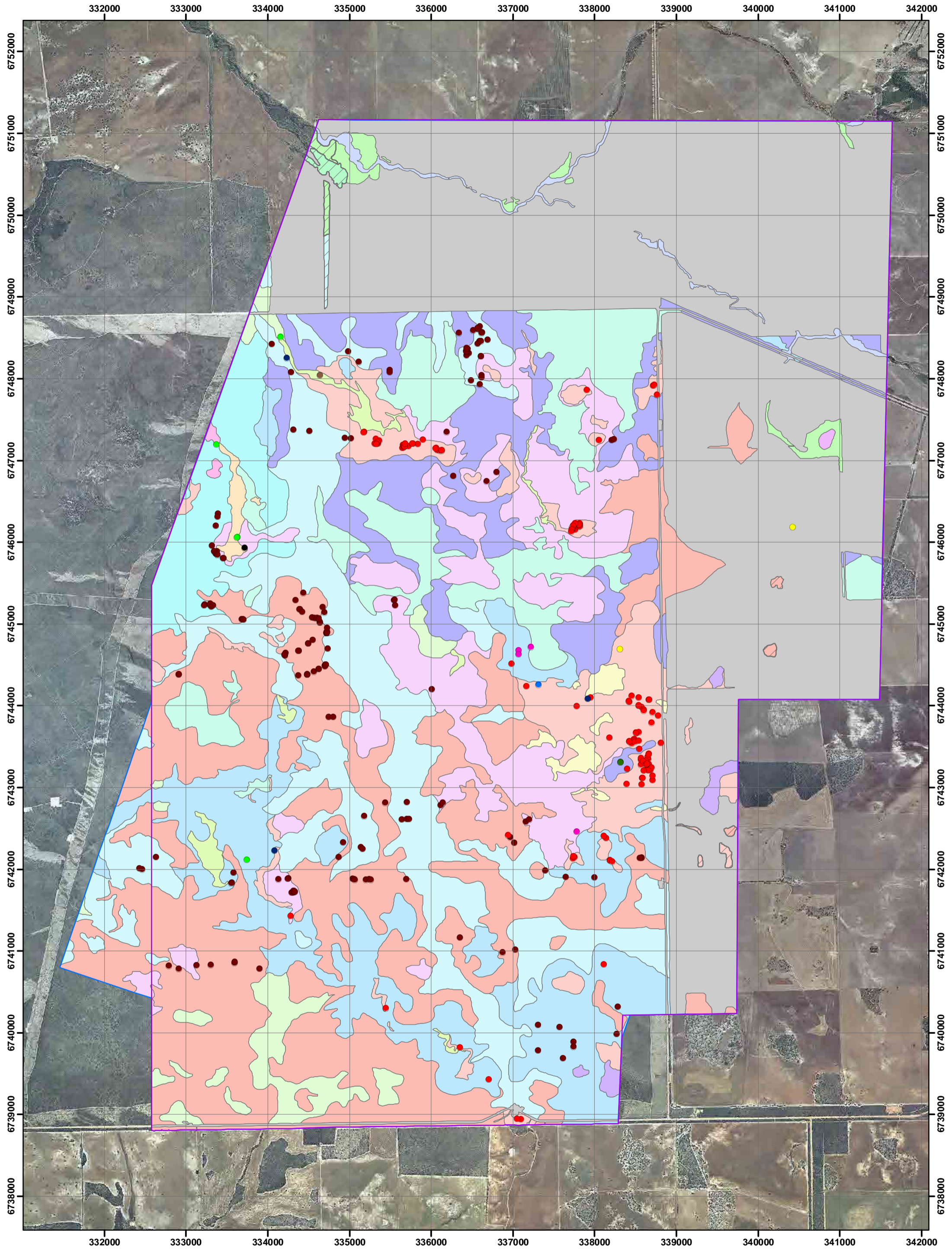
- 1a Mid open forest of *Eucalyptus accedens* over mid open shrubland dominated by *Gastrolobium spinosum*, *Olearia rudis* and *Anthocercis genistoides* over low open forbland and rushland dominated by *Calandrinia calyptrata*, *Calandrinia corrigioloides*, *Millotia myosotidifolia*, *Trachymene pilosa* and *Conostylis aculeata* subsp. *breviflora* on grey sand on mid slopes
- 1b Mid open forest of *Eucalyptus accedens* over low open shrubland dominated by *Gastrolobium plicatum* and *Dodonaea divaricata* over low open forbland of mixed species including *Goodenia berardiana*, *Rhodanthe manglesii*, *Podolepis lessonii* and *Acanthocarpus canaliculatus* on grey-brown sandy or clay loams on mid-upper slopes
- 2 Mid open forest of *Eucalyptus accedens* or low open forest *E. loxophleba* subsp. *loxophleba* over mid open shrubland dominated by *Rhagodia preissii* subsp. *preissii* and *Melaleuca acutifolia* on grey-brown sandy loams on flats and slopes
- 3 Occasional mid woodland of *Eucalyptus accedens* over mid shrubland dominated by *Melaleuca concreta*, *M. marginata* and *M. acutifolia* over low isolated mixed shrubs and sedges including *Acacia ericksoniae* and *Lepidosperma* sp. A2 Inland Flat (G.J. Keighery 7000) on pink-brown or white clay loams on flats
- 4 Tall closed to open shrubland dominated by *Allocasuarina campestris* or occasionally *Acacia neurophylla* subsp. *neurophylla* over mid open shrubland and sedgeland of mixed species including *Grevillea biternata*, *Melaleuca radula*, *Melaleuca concreta*, *Thryptomene* sp. Mingenew (Diels & Pritzel 332) (P3), *Ecdeiocolea monostachya* and *Thryptomene racemulosa* on grey-brown sand, sandy loam or clay loam, occasionally with granitic pebbles, on slopes and flats adjacent to seasonal creeks
- 5 Tall closed shrubland to shrubland dominated by *Allocasuarina campestris* with occasional *Acacia aciphylla*, *Acacia neurophylla* subsp. *neurophylla* and *Melaleuca viminea* subsp. *viminea* over sparse low shrubland and sedgeland of mixed species including *Ecdeiocolea monostachya* and *Thryptomene racemulosa* over open forbland and grassland of mixed introduced species including *Ehrharta longiflora* and *Ursinia anthemoides* on grey or brown sandy or clay loams within and on the banks of seasonal creeks
- 6 Open woodland of *Eucalyptus loxophleba* subsp. *loxophleba* over mid closed shrubland dominated by *Melaleuca marginata* over sparse forbland of mixed species including *Rhodanthe polycephala* on grey-brown clay on slopes above seasonal creeks
- 7a Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species frequently dominated by *Ecdeiocolea monostachya* and *Melaleuca aspalathoides*, or occasionally *M. tinkeri*, *Hakea auriculata* or *Hakea lissocarpha*, on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests
- 7b Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Banksia carlinoides*, *Ecdeiocolea monostachya*, *Hakea incrassata*, *Hibbertia hypericoides* and *Melaleuca aspalathoides* on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests
- 8 Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* over mid shrubland to open shrubland dominated by *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Hakea auriculata*, *Melaleuca radula*, *M. aspalathoides* and *Banksia fraseri* var. *fraseri* on gravelly grey or brown clay loams usually over massive laterite on breakaway tops, ridges and lateritic rises
- 9 Mid to low open shrubland of *Allocasuarina campestris*, *Melaleuca concreta* and *Melaleuca marginata* over low shrubland dominated by *Melaleuca tinkeri* and occasionally *Gastrolobium plicatum* over low shrubland and forbland dominated by *Stylidium torticarum* (P3), *Leucopogon* sp. Yandanooka (M. Hislop 2507) and *Micromyrtus rogeri* (P1) on gravelly pink-brown or white-grey clay or clay loam over decaying laterite on breakaway tops and slopes
- 10 Mid sparse to open shrubland of mixed species including *Calothamnus quadrifidus* subsp. *angustifolius*, *Grevillea biformis* subsp. *biformis* and *Banksia attenuata* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Melaleuca leuropoma*, *Daviesia divaricata* subsp. *divaricata* ms, *Mesomelaena pseudostygia* and *Banksia shuttleworthiana* on yellow-brown or occasionally grey sand on slopes and valley floors
- 11 Mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Hakea circumalata*, *Lepidobolus preissianus* subsp. *preissianus*, *Mesomelaena pseudostygia* and *M. stygia* subsp. *deflexa* (P3) on yellow or yellow-brown sand or sandy loam on mid to upper slopes
- 12 Occasional mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Beaufortia elegans*, *Hibbertia hypericoides* and *Ecdeiocolea monostachya* on grey or brown sand or sandy loam on mid to upper slopes
- 13a Low open woodland of *Eucalyptus todtiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Banksia scabrella* (P4), *Calothamnus sanguineus*, *Eremaea beaufortoides* var. *microphylla*, *Melaleuca* aff. *leuropoma* and *Hibbertia hypericoides* over low shrubland and sedgeland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis canteriata*, *Mesomelaena pseudostygia* and *Caustis dioica* on grey or brown sand on lower and mid slopes
- 13b Low open woodland of *Eucalyptus todtiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Calothamnus sanguineus*, *Hakea trifurcata*, *Hibbertia hypericoides* and *Melaleuca leuropoma* over low shrubland and rushland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis aculeata* subsp. *breviflora* and *Conostylis canteriata* on grey, brown or yellow sand on flats, in depressions and on slopes
- 14 Low open shrubland dominated by *Calothamnus quadrifidus* subsp. *angustifolius*, *Banksia carlinoides*, *Hakea lissocarpha* and *Verticordia densiflora* over low open shrubland, sedgeland and forbland dominated by *Dampiera teres* (broad-leaf variant), *Jacksonia angulata*, *Harperia lateriflora*, *Opercularia vaginata* and *Melaleuca trichophylla* on grey-brown sands, sandy loams and clay loams in minor drainage lines and on flats

### Other Mapped Areas

- 4D Degraded area of VT 4
- 8D Degraded area of VT 8
- 10D Degraded area of VT 10
- 13aD Degraded area of VT 13a
- PC1D Low woodland of *Acacia acuminata* over introduced pasture grasses and isolated native forbs including *Ptilotus manglesii* and *Arthropodium dyeri* on grey-brown clay loams on flats adjacent to seasonal creeks
- C Cleared Land

		<b>Warrego Energy Limited</b>		Author: David Coultas	<b>Figure</b>  <b>3</b>
		<b>West Erregulla Project Quadrat and Site Locations and Track Log Legend</b>		WEC Ref: Warrego12-33-01	
				Filename: Warrego12-33-01-f03.mxd	
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**Warrego Energy Limited  
West Erregulla Project  
Threatened and Potentially  
Undescribed Flora Overview**

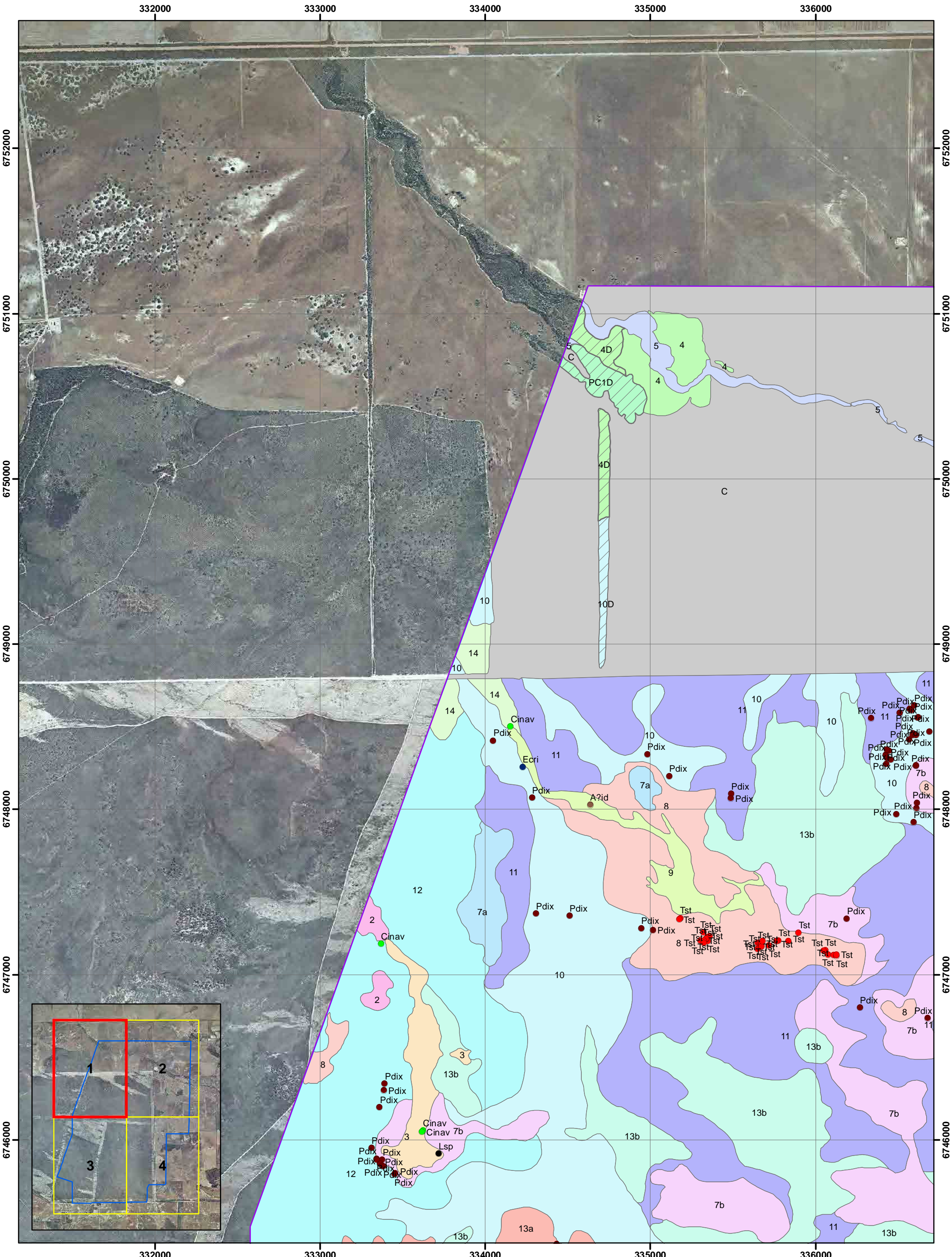
Revision: A - December 2012

Author: David Coultas  
WEC Ref: Warrego12-33-01  
Filename: Warrego12-33-01-f04-0.mxd

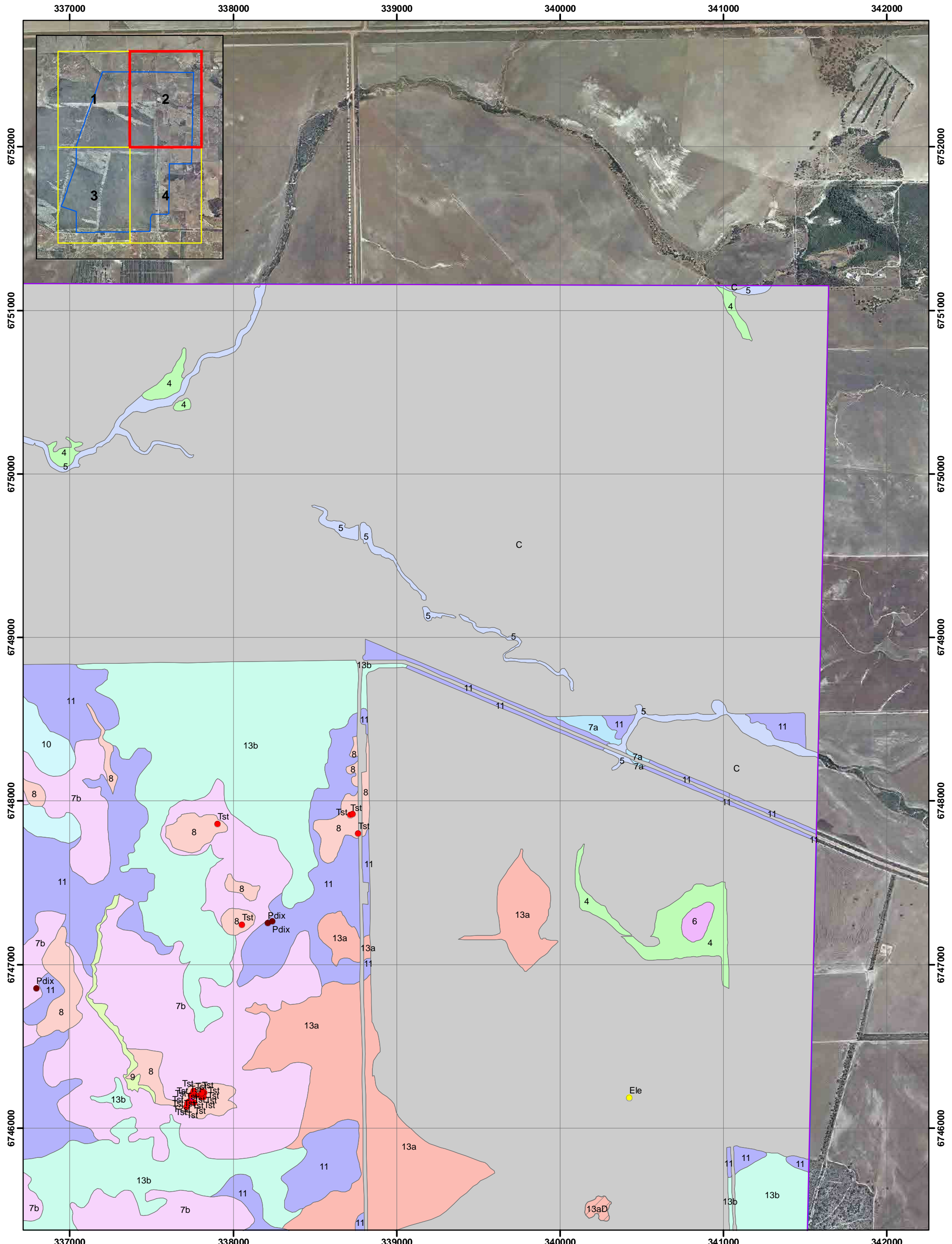
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**Figure  
4.0**

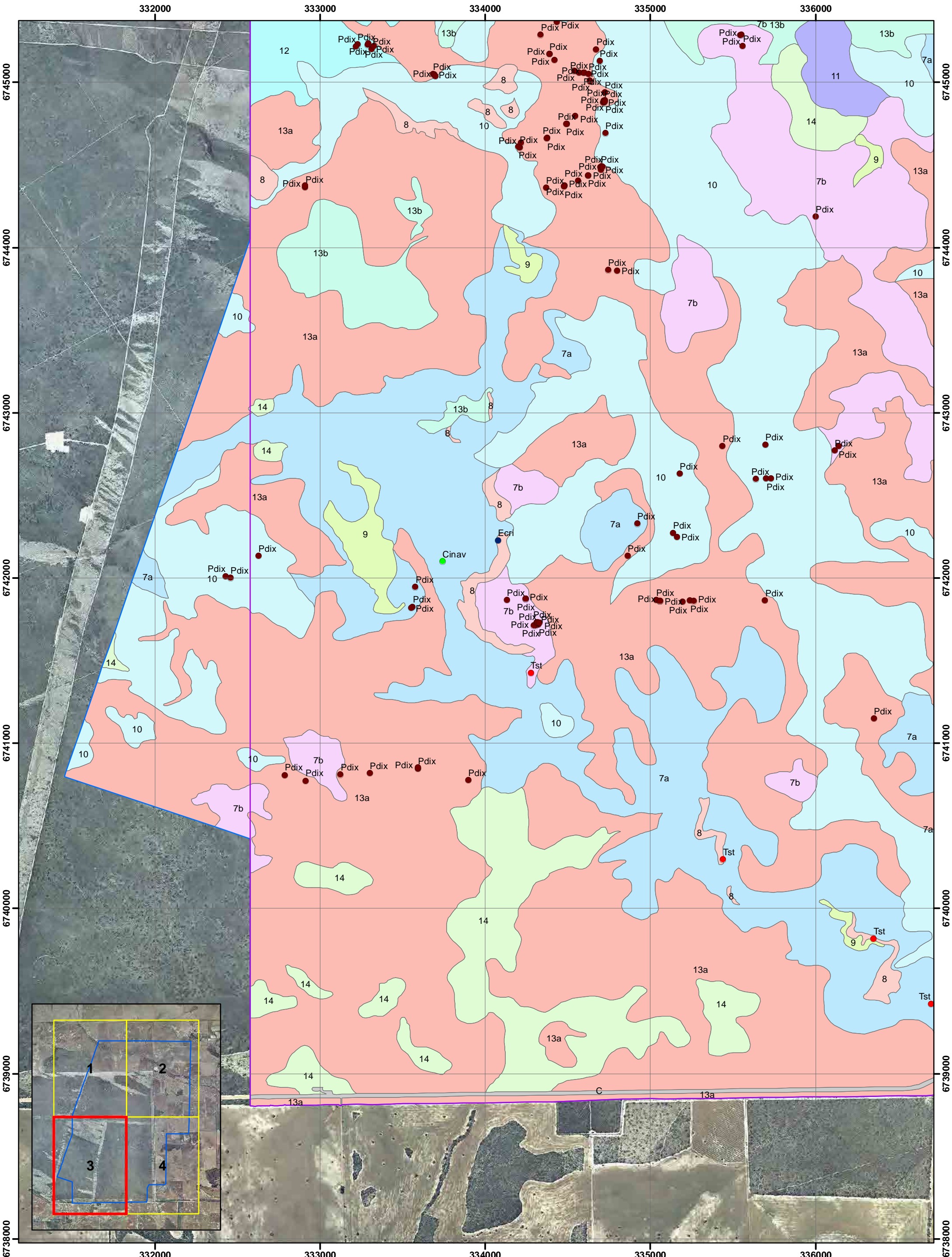












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**Warrego Energy Limited  
West Erregulla Project  
Threated and Potentially Undescribed Flora  
Sheet 3 of 4**

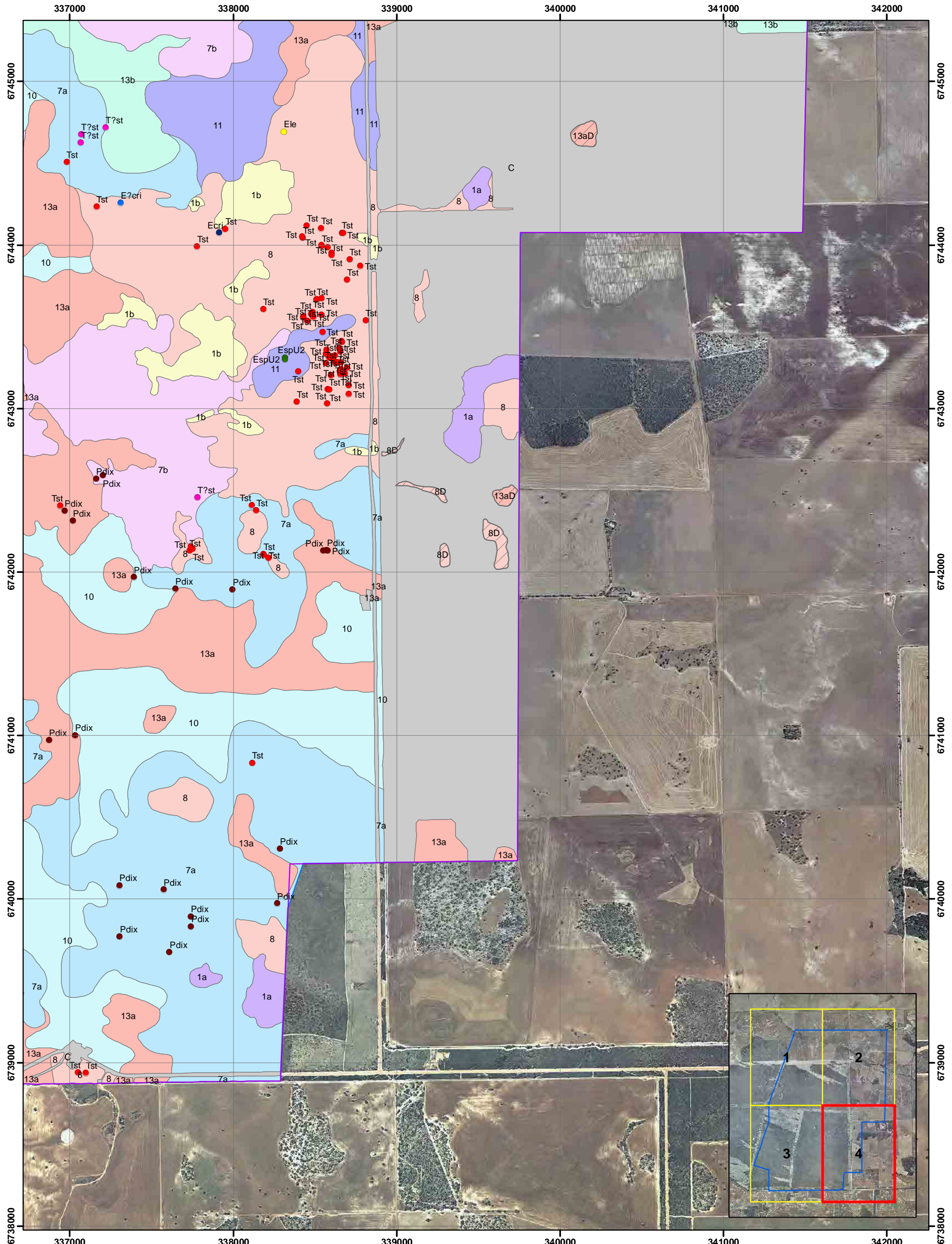
Revision: A - December 2012

Author: David Coultas  
WEC Ref: Warrego12-33-01  
Filename: Warrego12-33-01-f04.mxd

Scale: 1:20,000 (A3) Grid: MGA Zone 50

**Figure  
4.3**





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**Warrego Energy Limited**  
**West Erregulla Project**  
**Threatened and Potentially Undescribed Flora**  
**Sheet 4 of 4**

Revision: A - December 2012

Author: David Coultas  
 WEC Ref: Warrego12-33-01  
 Filename: Warrego12-33-01-f04.mxd

Scale: 1:20,000 (A3) Grid: MGA Zone 50

**Figure**  
**4.4**




















## Legend







 Project Area Boundary

 Study Area











### Vegetation Types

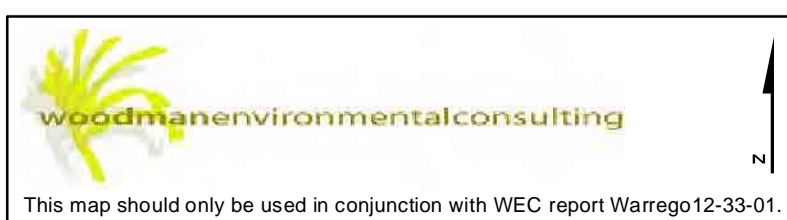

-  1a Mid open forest of *Eucalyptus accedens* over mid open shrubland dominated by *Gastrolobium spinosum*, *Olearia rudis* and *Anthocercis genistoides* over low open forbland and rushland dominated by *Calandrinia calyprata*, *Calandrinia corrigioloides*, *Millotia myosotidifolia*, *Trachymene pilosa* and *Conostylis aculeata* subsp. *breviflora* on grey sand on mid slopes
-  1b Mid open forest of *Eucalyptus accedens* over low open shrubland dominated by *Gastrolobium plicatum* and *Dodonaea divaricata* over low open forbland of mixed species including *Goodenia berardiana*, *Rhodanthe manglesii*, *Podolepis lessonii* and *Acanthocarpus canaliculatus* on grey-brown sandy or clay loams on mid-upper slopes
-  2 Mid open forest of *Eucalyptus accedens* or low open forest *E. loxophleba* subsp. *loxophleba* over mid open shrubland dominated by *Rhagodia preissii* subsp. *preissii* and *Melaleuca acutifolia* on grey-brown sandy loams on flats and slopes
-  3 Occasional mid woodland of *Eucalyptus accedens* over mid shrubland dominated by *Melaleuca concreta*, *M. marginata* and *M. acutifolia* over low isolated mixed shrubs and sedges including *Acacia ericksoniae* and *Lepidosperma* sp. A2 Inland Flat (G.J. Keighery 7000) on pink-brown or white clay loams on flats
-  4 Tall closed to open shrubland dominated by *Allocasuarina campestris* or occasionally *Acacia neurophylla* subsp. *neurophylla* over mid open shrubland and sedgeland of mixed species including *Grevillea biternata*, *Melaleuca radula*, *Melaleuca concreta*, *Thryptomene* sp. Mingenew (Diels & Pritzel 332) (P3), *Ecdeiocolea monostachya* and *Thryptomene racemulosa* on grey-brown sand, sandy loam or clay loam, occasionally with granitic pebbles, on slopes and flats adjacent to seasonal creeks
-  5 Tall closed shrubland to shrubland dominated by *Allocasuarina campestris* with occasional *Acacia aciphylla*, *Acacia neurophylla* subsp. *neurophylla* and *Melaleuca viminea* subsp. *viminea* over sparse low shrubland and sedgeland of mixed species including *Ecdeiocolea monostachya* and *Thryptomene racemulosa* over open forbland and grassland of mixed introduced species including *\*Ehrharta longiflora* and *Ursinia anthemoides* on grey or brown sandy or clay loams within and on the banks of seasonal creeks
-  6 Open woodland of *Eucalyptus loxophleba* subsp. *loxophleba* over mid closed shrubland dominated by *Melaleuca marginata* over sparse forbland of mixed species including *Rhodanthe polycephala* on grey-brown clay on slopes above seasonal creeks
-  7a Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species frequently dominated by *Ecdeiocolea monostachya* and *Melaleuca aspalathoides*, or occasionally *M. tinkerii*, *Hakea auriculata* or *Hakea lissocarpa*, on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests
-  7b Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Banksia carlinoides*, *Ecdeiocolea monostachya*, *Hakea incrassata*, *Hibbertia hypericoides* and *Melaleuca aspalathoides* on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests
-  8 Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* over mid shrubland to open shrubland dominated by *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Hakea auriculata*, *Melaleuca radula*, *M. aspalathoides* and *Banksia fraseri* var. *fraseri* on gravelly grey or brown clay loams usually over massive laterite on breakaway tops, ridges and lateritic rises
-  9 Mid to low open shrubland of *Allocasuarina campestris*, *Melaleuca concreta* and *Melaleuca marginata* over low shrubland dominated by *Melaleuca tinkerii* and occasionally *Gastrolobium plicatum* over low shrubland and forbland dominated by *Stylidium torticarpum* (P3), *Leucopogon* sp. Yandanooka (M. Hislop 2507) and *Micromyrtus rogeri* (P1) on gravelly pink-brown or white-grey clay or clay loam over decaying laterite on breakaway tops and slopes
-  10 Mid sparse to open shrubland of mixed species including *Calothamnus quadrifidus* subsp. *angustifolius*, *Grevillea biformis* subsp. *biformis* and *Banksia attenuata* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Melaleuca leuropoma*, *Daviesia divaricata* subsp. *divaricata* ms, *Mesomelaena pseudostygia* and *Banksia shuttleworthiana* on yellow-brown or occasionally grey sand on slopes and valley floors
-  11 Mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Hakea circumalata*, *Lepidobolus preissianus* subsp. *preissianus*, *Mesomelaena pseudostygia* and *M. stygia* subsp. *deflexa* (P3) on yellow or yellow-brown sand or sandy loam on mid to upper slopes
-  12 Occasional mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Beaufortia elegans*, *Hibbertia hypericoides* and *Ecdeiocolea monostachya* on grey or brown sand or sandy loam on mid to upper slopes
-  13a Low open woodland of *Eucalyptus tottiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Banksia scabrella* (P4), *Calothamnus sanguineus*, *Eremaea beaufortoides* var. *microphylla*, *Melaleuca* aff. *leuropoma* and *Hibbertia hypericoides* over low shrubland and sedgeland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis canteriata*, *Mesomelaena pseudostygia* and *Caustis dioica* on grey or brown sand on lower and mid slopes
-  13b Low open woodland of *Eucalyptus tottiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Calothamnus sanguineus*, *Hakea trifurcata*, *Hibbertia hypericoides* and *Melaleuca leuropoma* over low shrubland and rushland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis aculeata* subsp. *breviflora* and *Conostylis canteriata* on grey, brown or yellow sand on flats, in depressions and on slopes
-  14 Low open shrubland dominated by *Calothamnus quadrifidus* subsp. *angustifolius*, *Banksia carlinoides*, *Hakea lissocarpa* and *Verticordia densiflora* over low open shrubland, sedgeland and forbland dominated by *Dampiera teres* (broad-leaf variant), *Jacksonia angulata*, *Harperia lateriflora*, *Opercularia vaginata* and *Melaleuca trichophylla* on grey-brown sands, sandy loams and clay loams in minor drainage lines and on flats

### Other Mapped Areas

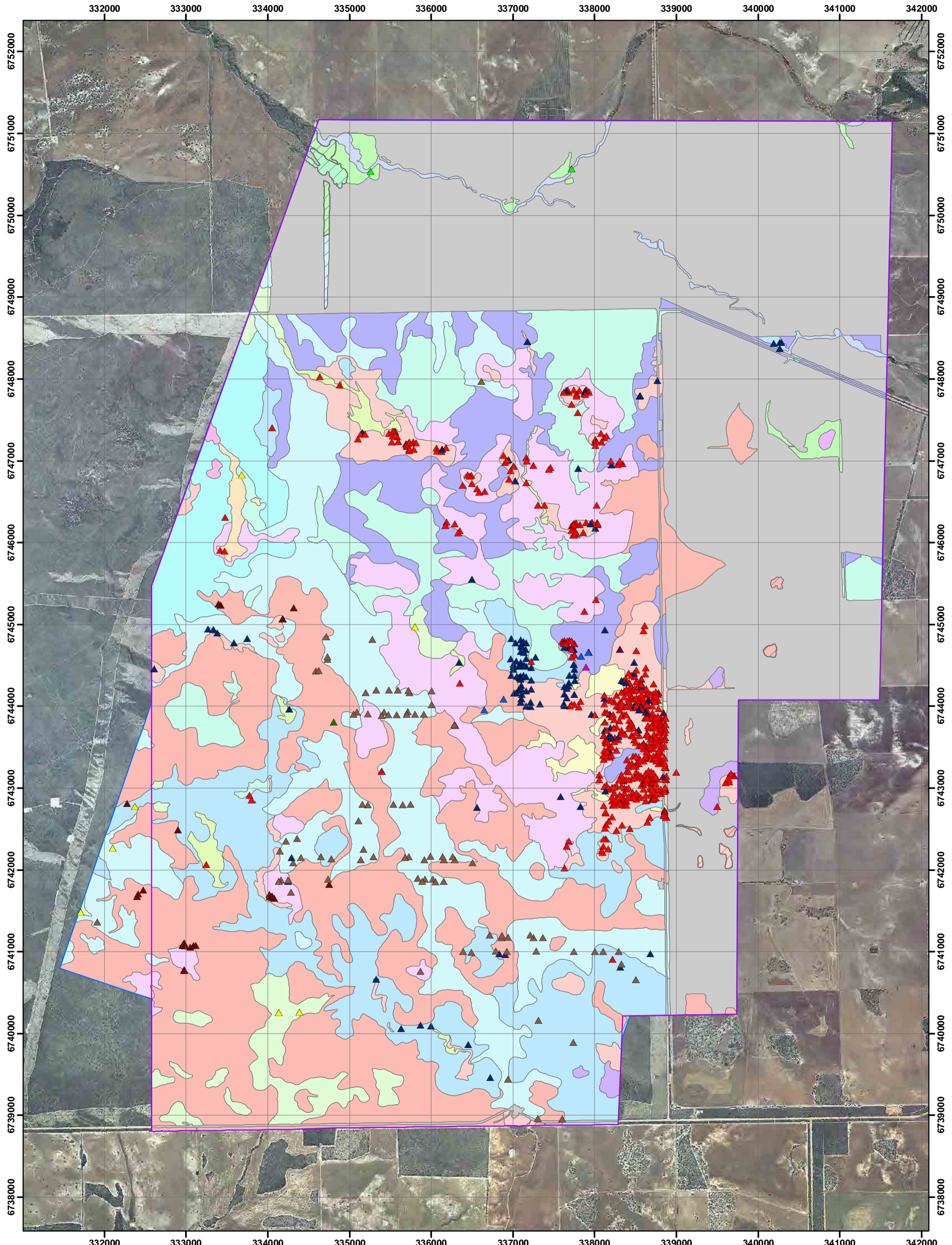
-  4D Degraded area of VT 4
-  8D Degraded area of VT 8
-  10D Degraded area of VT 10
-  13aD Degraded area of VT 13a
-  PC1D Low woodland of *Acacia acuminata* over introduced pasture grasses and isolated native forbs including *Ptilotus manglesii* and *Arthropodium dyeri* on grey-brown clay loams on flats adjacent to seasonal creeks
-  C Cleared Land

### Threatened and Potential Undescribed Flora

-  A?id *Acacia ?idiomorpha*
-  Cinav *Cryptandra intermedia* (atypical variant)
-  Ecri *Eucalyptus crispata* (T)
-  E?cri *Eucalyptus ?crispata* (T)
-  Ele *Eucalyptus leprophloia* (T)
-  EspU2 *Eucalyptus* sp. (unidentified 2)
-  Lsp *Leucopogon* sp.
-  Pdix *Paracaleana dixonii* (T)
-  Tst *Thelymitra stellata* (T)
-  T?st *Thelymitra ?stellata* (T)

		<b>Warrego Energy Limited West Erregulla Project Vegetation Types and Threatened and Potentially Undescribed Flora Legend</b>	Author: David Coultas	<b>Figure 4</b>
		WEC Ref: Warrego12-33-01		
		Revision: A - December 2012	Filename: Warrego12-33-01-f04.mxd	
		Scale: 1:20,000 (A3) Grid: MGA Zone 50		





This map should only be used in conjunction with WEC report Warrego12-33-01.



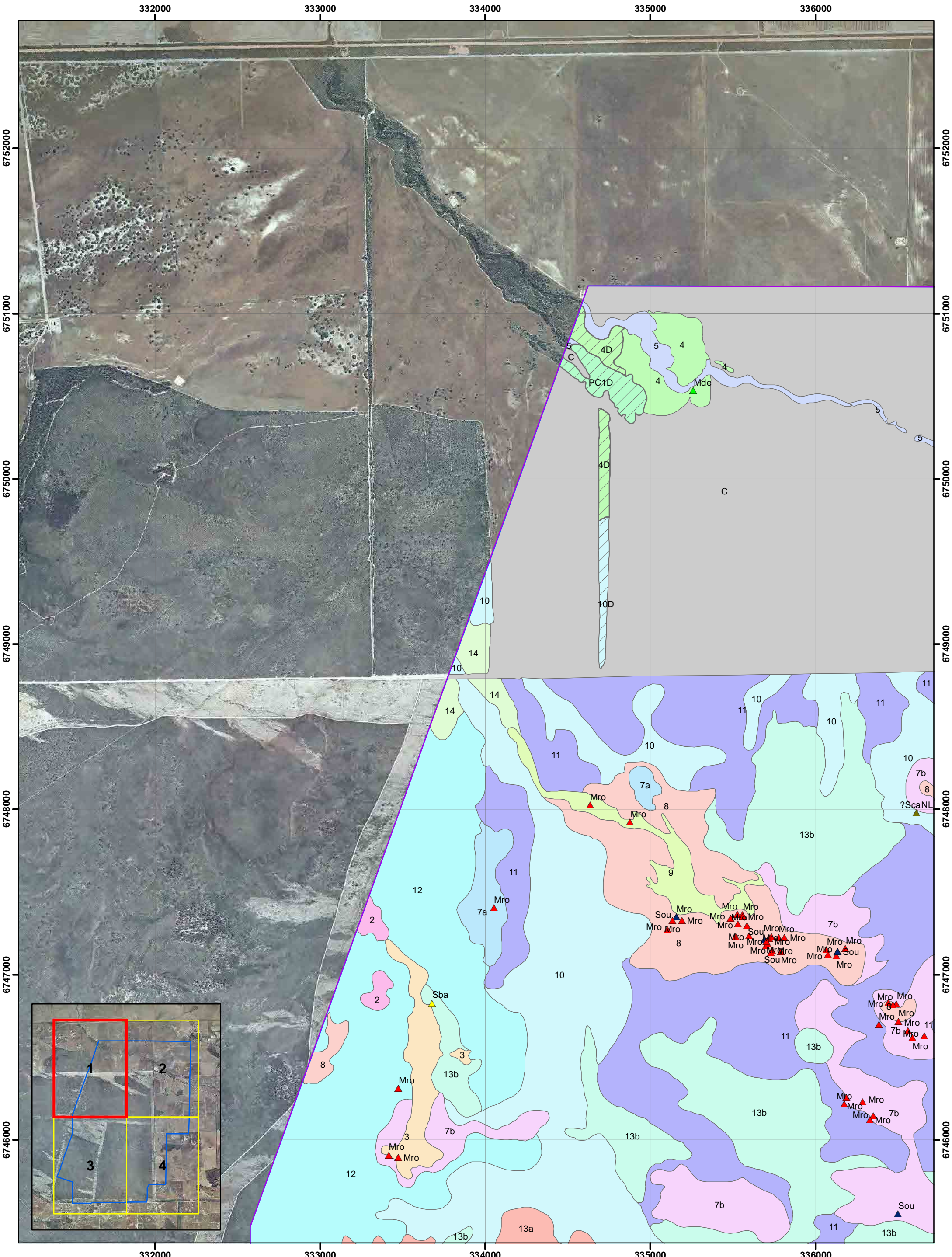
**Warrego Energy Limited  
West Erregulla Project  
Priority 1 and 2 Flora Overview**

Revision: A - December 2012

Author: David Coultas  
WEC Ref: Warrego12-33-01  
Filename: Warrego12-33-01-f05-0.mxd  
Scale: 1:40,000 (A3) Grid: MGA Zone 50

**Figure  
5.0**





**Warrego Energy Limited  
West Erregulla Project  
Priority 1 and 2 Flora  
Sheet 1 of 4**

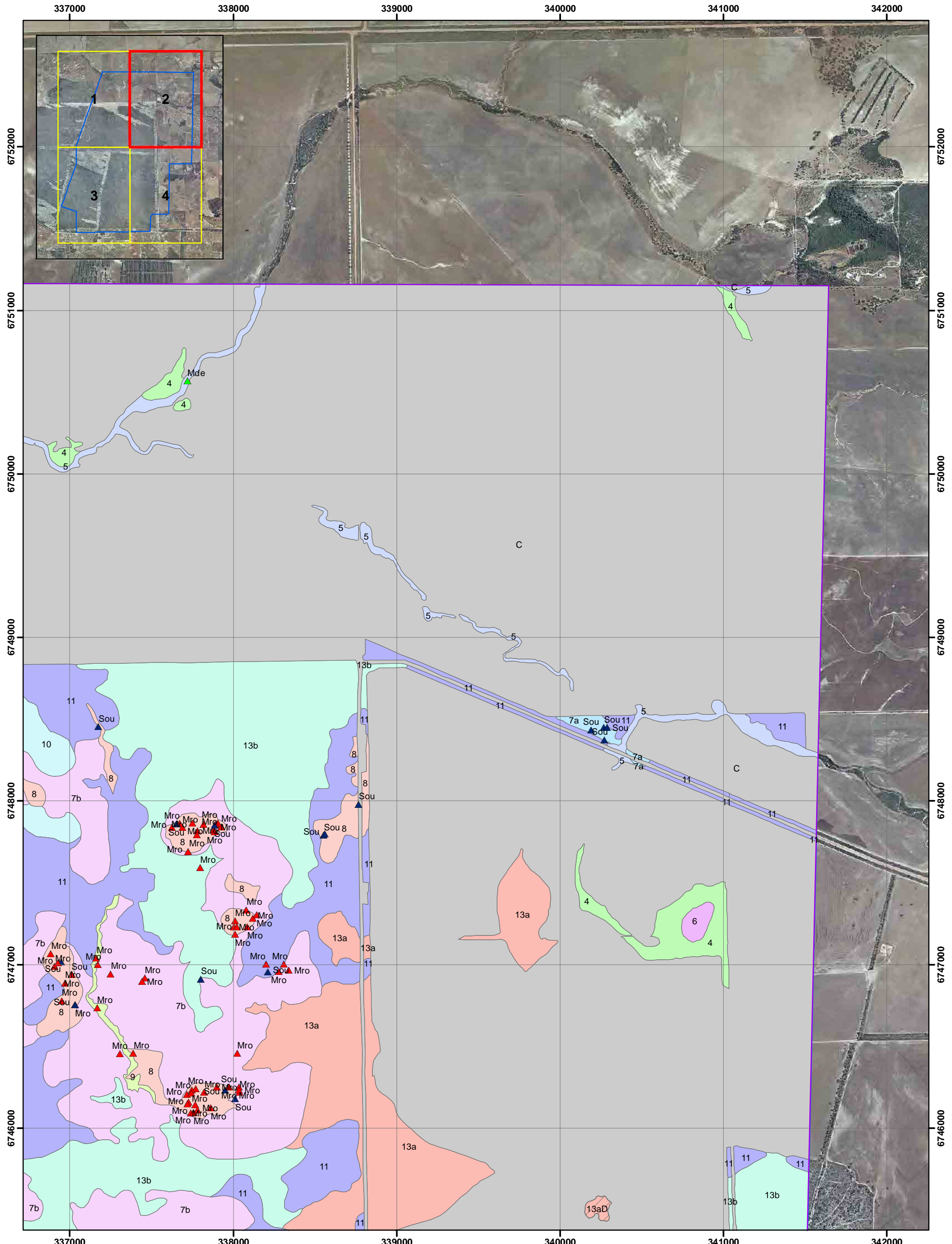
Author: David Coultas  
 WEC Ref: Warrego12-33-01  
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 Scale: 1:20,000 (A3) Grid: MGA Zone 50

**Figure  
5.1**

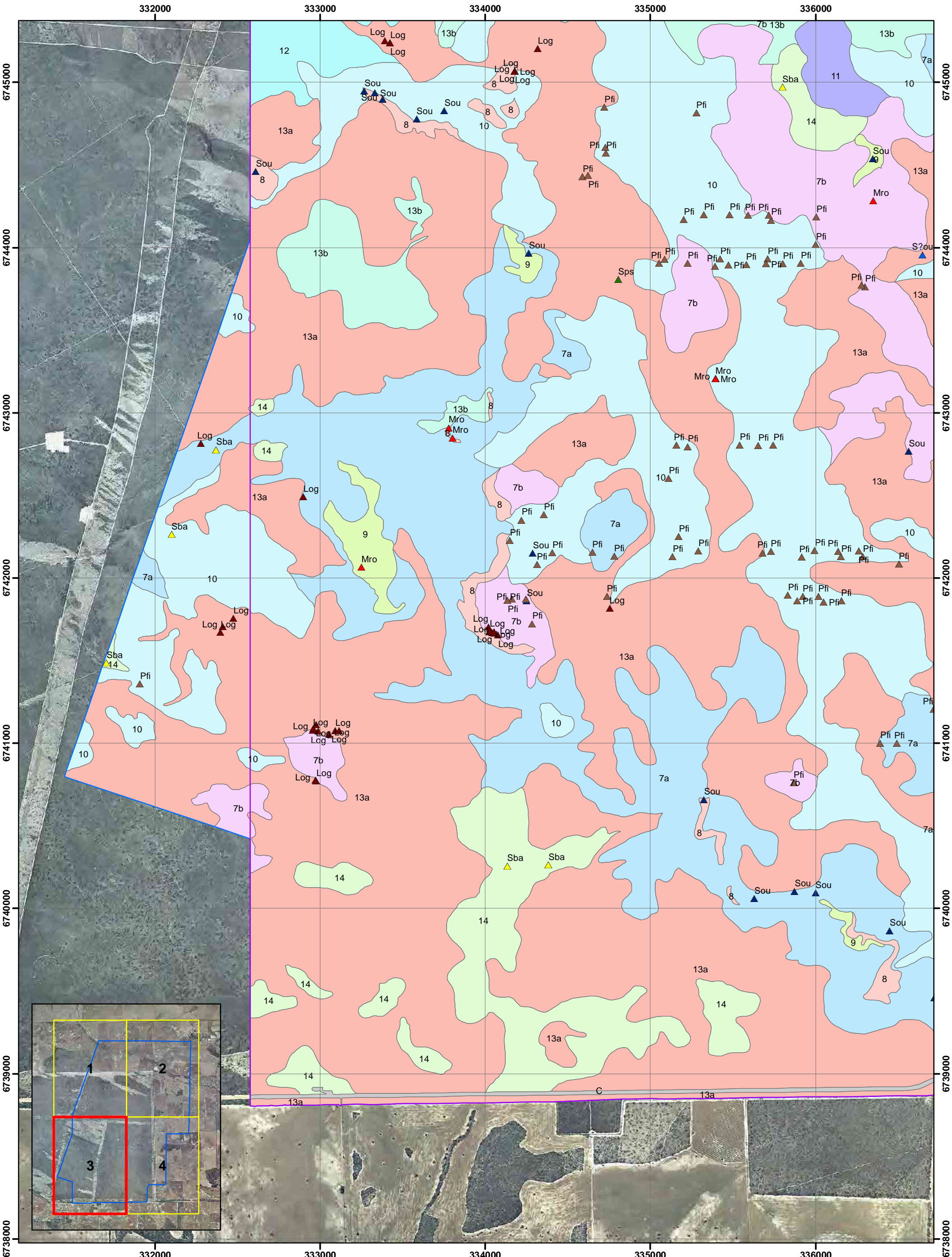
This map should only be used in conjunction with WEC report Warrego12-33-01.

Revision: A - December 2012









This map should only be used in conjunction with WEC report Warrego12-33-01.



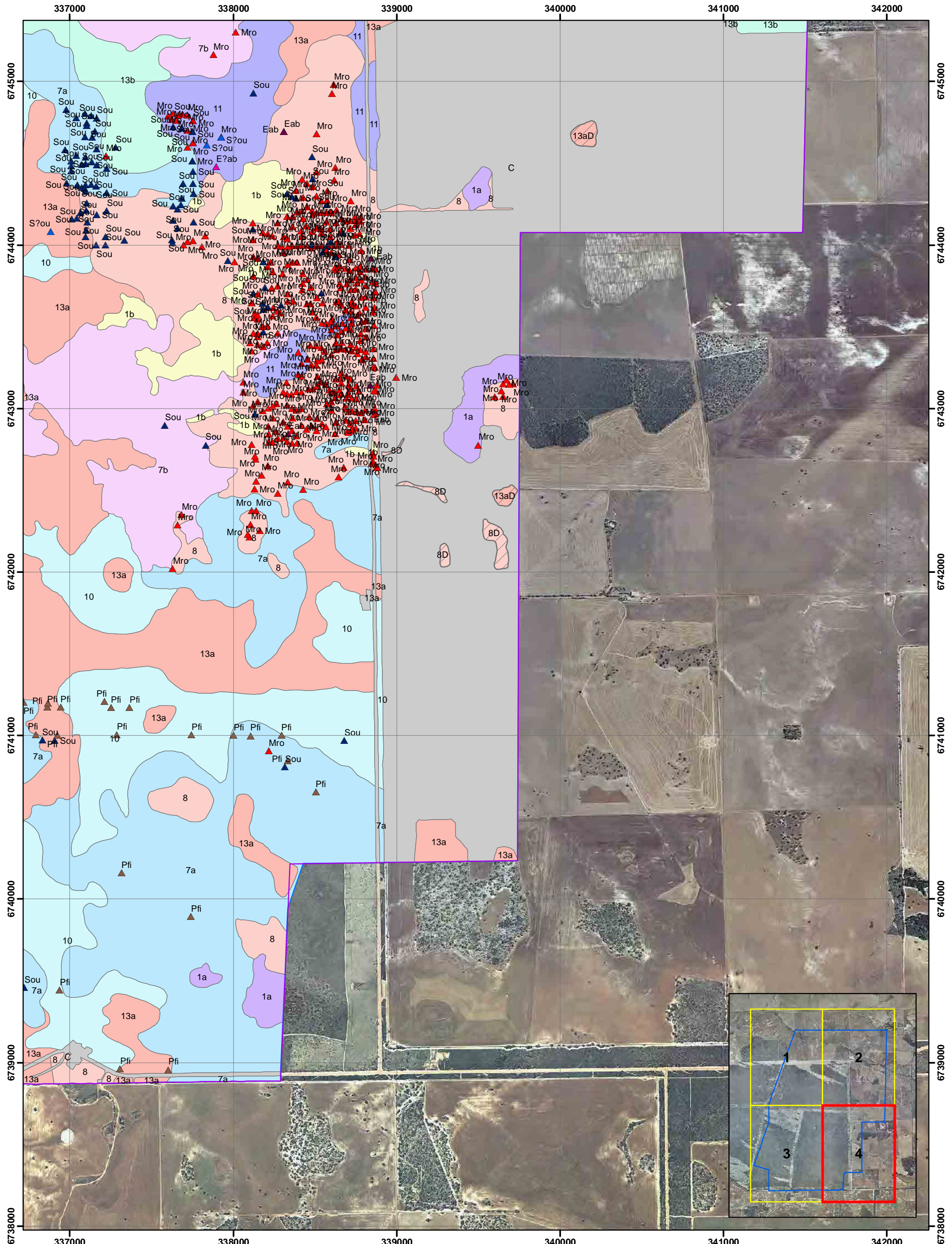
**Warrego Energy Limited  
West Erregulla Project  
Priority 1 and 2 Flora  
Sheet 3 of 4**

Revision: A - December 2012

Author: David Coultas  
WEC Ref: Warrego12-33-01  
Filename: Warrego12-33-01-f05.mxd  
Scale: 1:20,000 (A3) Grid: MGA Zone 50

**Figure  
5.3**





This map should only be used in conjunction with WEC report Warrego12-33-01.

**Warrego Energy Limited**  
**West Erregulla Project**  
**Priority 1 and 2 Flora**  
**Sheet 4 of 4**

Revision: A - December 2012


Author: David Coultas  
 WEC Ref: Warrego12-33-01  
 Filename: Warrego12-33-01-f05.mxd

Scale: 1:20,000 (A3) Grid: MGA Zone 50

**Figure**  
**5.4**




















## Legend







 Project Area Boundary

 Study Area












### Vegetation Types

-  1a Mid open forest of *Eucalyptus accedens* over mid open shrubland dominated by *Gastrolobium spinosum*, *Olearia rudis* and *Anthocercis genistoides* over low open forbland and rushland dominated by *Calandrinia calyptata*, *Calandrinia corrigioloides*, *Millotia myosotidifolia*, *Trachymene pilosa* and *Conostylis aculeata* subsp. *breviflora* on grey sand on mid slopes
-  1b Mid open forest of *Eucalyptus accedens* over low open shrubland dominated by *Gastrolobium plicatum* and *Dodonaea divaricata* over low open forbland of mixed species including *Goodenia berardiana*, *Rhodanthe manglesii*, *Podolepis lessonii* and *Acanthocarpus canaliculatus* on grey-brown sandy or clay loams on mid-upper slopes
-  2 Mid open forest of *Eucalyptus accedens* or low open forest *E. loxophleba* subsp. *loxophleba* over mid open shrubland dominated by *Rhagodia preissii* subsp. *preissii* and *Melaleuca acutifolia* on grey-brown sandy loams on flats and slopes
-  3 Occasional mid woodland of *Eucalyptus accedens* over mid shrubland dominated by *Melaleuca concreta*, *M. marginata* and *M. acutifolia* over low isolated mixed shrubs and sedges including *Acacia ericksoniae* and *Lepidosperma* sp. A2 Inland Flat (G.J. Keighery 7000) on pink-brown or white clay loams on flats
-  4 Tall closed to open shrubland dominated by *Allocasuarina campestris* or occasionally *Acacia neurophylla* subsp. *neurophylla* over mid open shrubland and sedgeland of mixed species including *Grevillea bitermata*, *Melaleuca radula*, *Melaleuca concreta*, *Thryptomene* sp. Mingenew (Diels & Pritzel 332) (P3), *Ecdeiocolea monostachya* and *Thryptomene racemulosa* on grey-brown sand, sandy loam or clay loam, occasionally with granitic pebbles, on slopes and flats adjacent to seasonal creeks
-  5 Tall closed shrubland to shrubland dominated by *Allocasuarina campestris* with occasional *Acacia aciphylla*, *Acacia neurophylla* subsp. *neurophylla* and *Melaleuca viminea* subsp. *viminea* over sparse low shrubland and sedgeland of mixed species including *Ecdeiocolea monostachya* and *Thryptomene racemulosa* over open forbland and grassland of mixed introduced species including *Ehrharta longiflora* and *Ursinia anthemoides* on grey or brown sandy or clay loams within and on the banks of seasonal creeks
-  6 Open woodland of *Eucalyptus loxophleba* subsp. *loxophleba* over mid closed shrubland dominated by *Melaleuca marginata* over sparse forbland of mixed species including *Rhodanthe polycephala* on grey-brown clay on slopes above seasonal creeks
-  7a Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species frequently dominated by *Ecdeiocolea monostachya* and *Melaleuca aspalathoides*, or occasionally *M. tinkeri*, *Hakea auriculata* or *Hakea lissocarpha*, on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests
-  7b Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Banksia carlinoides*, *Ecdeiocolea monostachya*, *Hakea incrassata*, *Hibbertia hypericoides* and *Melaleuca aspalathoides* on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests
-  8 Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* over mid shrubland to open shrubland dominated by *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Hakea auriculata*, *Melaleuca radula*, *M. aspalathoides* and *Banksia fraseri* var. *fraseri* on gravelly grey or brown clay loams usually over massive laterite on breakaway tops, ridges and lateritic rises
-  9 Mid to low open shrubland of *Allocasuarina campestris*, *Melaleuca concreta* and *Melaleuca marginata* over low shrubland dominated by *Melaleuca tinkeri* and occasionally *Gastrolobium plicatum* over low shrubland and forbland dominated by *Stylidium torticarpum* (P3), *Leucopogon* sp. Yandanooka (M. Hislop 2507) and *Micromyrtus rogeri* (P1) on gravelly pink-brown or white-grey clay or clay loam over decaying laterite on breakaway tops and slopes
-  10 Mid sparse to open shrubland of mixed species including *Calothamnus quadrifidus* subsp. *angustifolius*, *Grevillea biformis* subsp. *biformis* and *Banksia attenuata* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Melaleuca leuropoma*, *Daviesia divaricata* subsp. *divaricata* ms, *Mesomelaena pseudostygia* and *Banksia shuttleworthiana* on yellow-brown or occasionally grey sand on slopes and valley floors
-  11 Mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Hakea circumalata*, *Lepidobolus preissianus* subsp. *preissianus*, *Mesomelaena pseudostygia* and *M. stygia* subsp. *deflexa* (P3) on yellow or yellow-brown sand or sandy loam on mid to upper slopes
-  12 Occasional mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Beaufortia elegans*, *Hibbertia hypericoides* and *Ecdeiocolea monostachya* on grey or brown sand or sandy loam on mid to upper slopes
-  13a Low open woodland of *Eucalyptus tottiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Banksia scabrella* (P4), *Calothamnus sanguineus*, *Eremaea beaufortoides* var. *microphylla*, *Melaleuca* aff. *leuropoma* and *Hibbertia hypericoides* over low shrubland and sedgeland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis canteriata*, *Mesomelaena pseudostygia* and *Caustis dioica* on grey or brown sand on lower and mid slopes
-  13b Low open woodland of *Eucalyptus tottiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Calothamnus sanguineus*, *Hakea trifurcata*, *Hibbertia hypericoides* and *Melaleuca leuropoma* over low shrubland and rushland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis aculeata* subsp. *breviflora* and *Conostylis canteriata* on grey, brown or yellow sand on flats, in depressions and on slopes
-  14 Low open shrubland dominated by *Calothamnus quadrifidus* subsp. *angustifolius*, *Banksia carlinoides*, *Hakea lissocarpha* and *Verticordia densiflora* over low open shrubland, sedgeland and forbland dominated by *Dampiera teres* (broad-leaf variant), *Jacksonia angulata*, *Harperia lateriflora*, *Opercularia vaginata* and *Melaleuca trichophylla* on grey-brown sands, sandy loams and clay loams in minor drainage lines and on flats

### Other Mapped Areas

-  4D Degraded area of VT 4
-  8D Degraded area of VT 8
-  10D Degraded area of VT 10
-  13aD Degraded area of VT 13a
-  PC1D Low woodland of *Acacia acuminata* over introduced pasture grasses and isolated native forbs including *Ptilotus manglesii* and *Arthropodium dyeri* on grey-brown clay loams on flats adjacent to seasonal creeks
-  C Cleared Land

### Conservation Significant Flora

-  Eab *Eucalyptus abdita* (P2)
-  E?ab *Eucalyptus ?abdita* (P2)
-  Log *Lasiopetalum ogilvieanum* (P1)
-  Mde *Malleostemon decipiens* (P1)
-  Mro *Micromyrtus rogeri* (P1)
-  Pfi *Persoonia filiformis* (P2)
-  ?ScaNL *?Stylidium carnosum* subsp. *Narrow leaves* (J.A. Wege 490)
-  Sba *Schoenus badius* (P2)
-  Sou *Synaphea oulopha* (P1)
-  S?ou *Synaphea ?oulopha* (P1)
-  Sps *Stylidium pseudocaespitosum* (P2)



This map should only be used in conjunction with WEC report Warrego12-33-01.



Warrego Energy Limited  
West Erregulla Project  
Vegetation Types and Priority 1 and 2  
Conservation Significant Flora Legend

Revision: A - December 2012

Author: David Coultas

WEC Ref: Warrego12-33-01

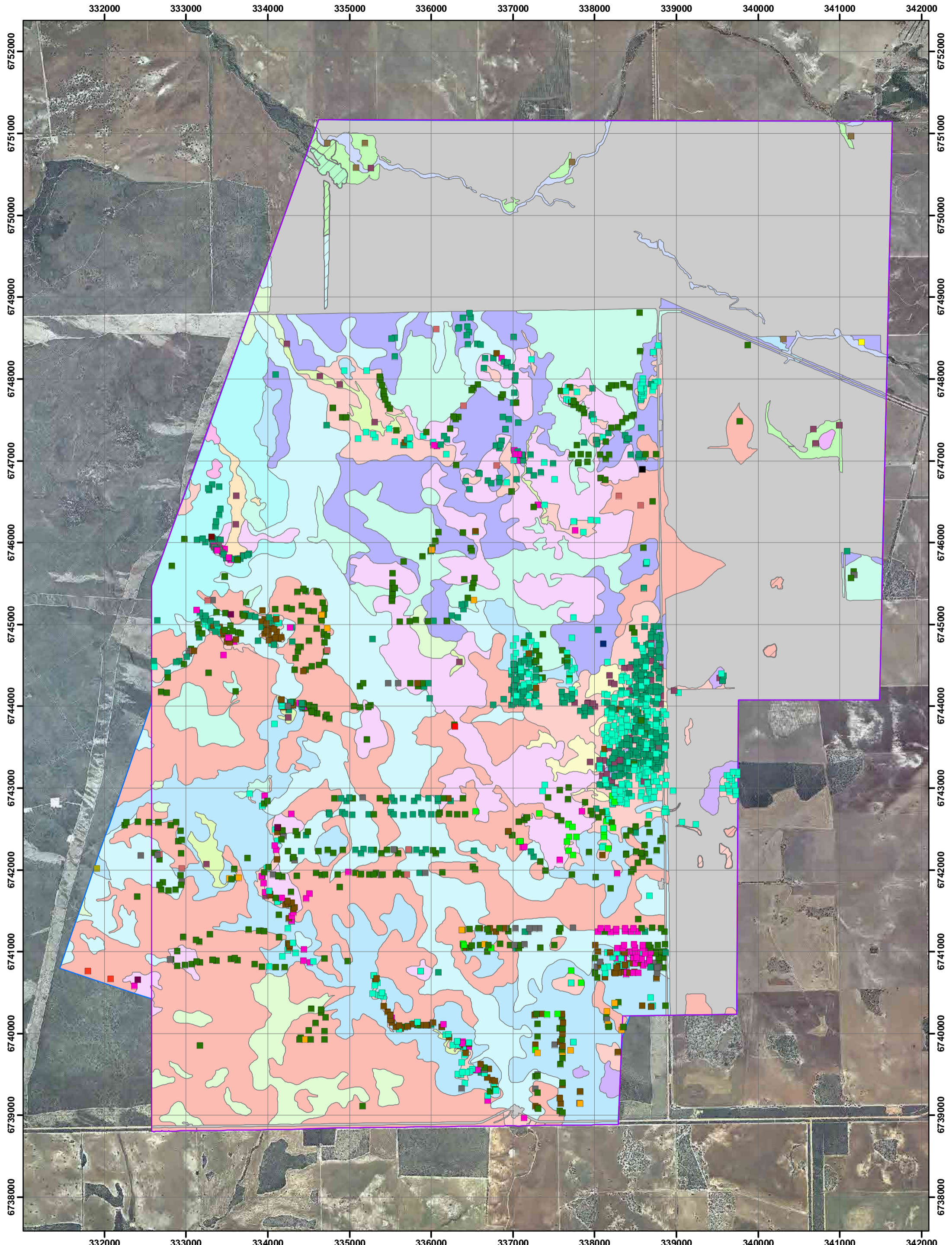
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Scale: 1:20,000 (A3) Grid: MGA Zone 50

Figure

5





This map should only be used in conjunction with WEC report Warrego12-33-01.



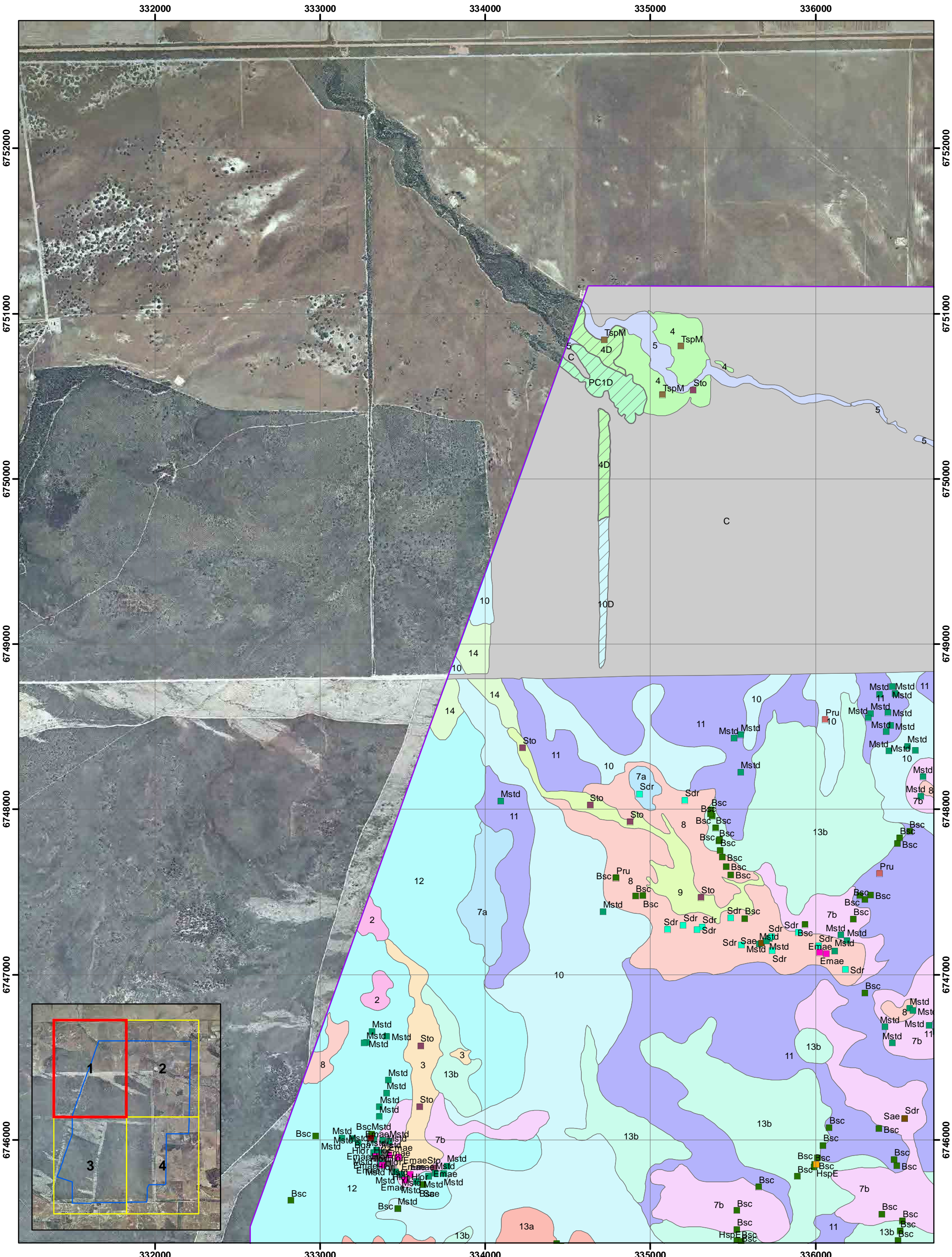
**Warrego Energy Limited  
West Erregulla Project  
Priority 3 and 4 Flora Overview**

Revision: A - December 2012

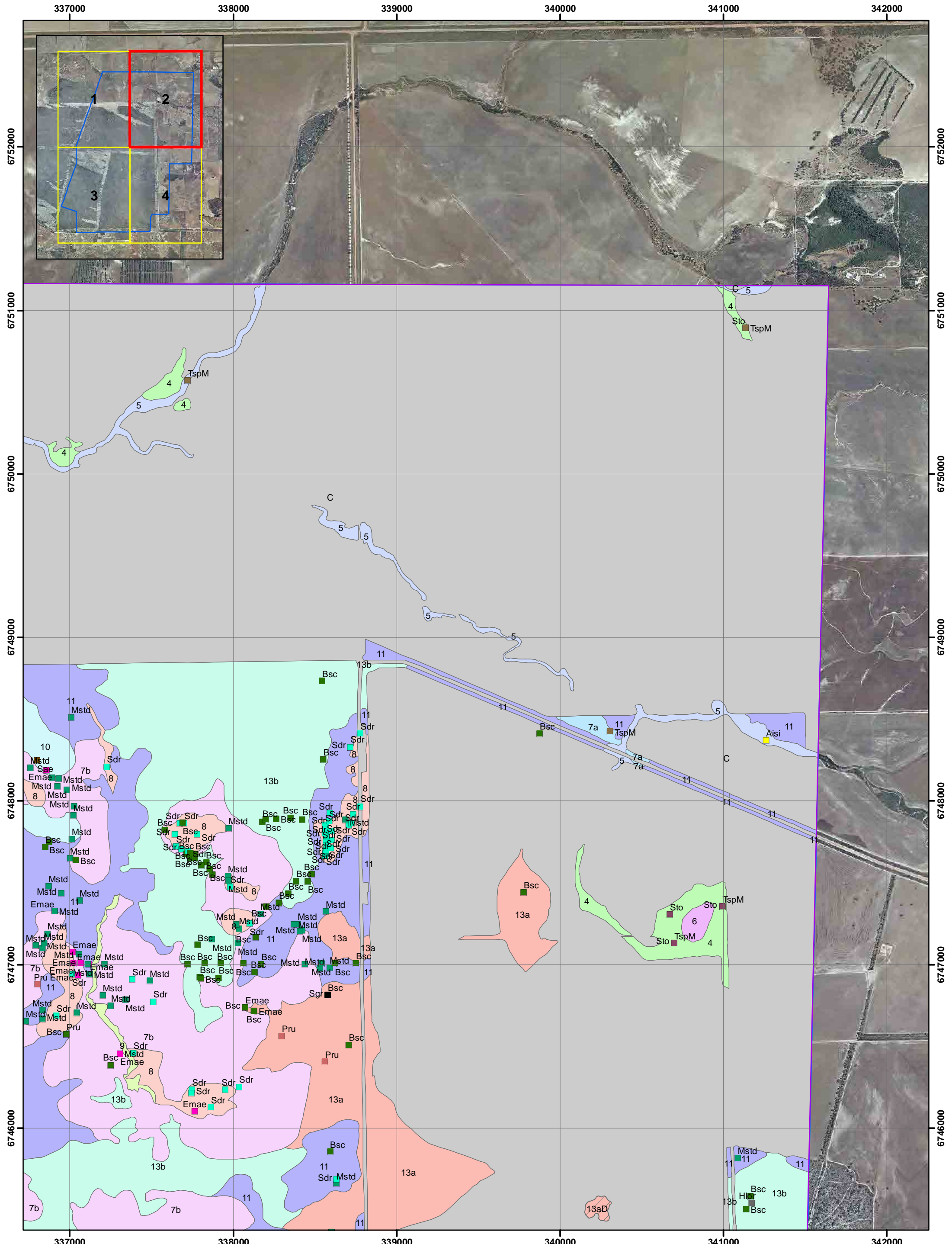
Author: David Coultas  
 WEC Ref: Warrego12-33-01  
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 Scale: 1:40,000 (A3) Grid: MGA Zone 50

**Figure  
6.0**









This map should only be used in conjunction with WEC report Warrego12-33-01.

**Warrego Energy Limited**  
**West Erregulla Project**  
**Priority 3 and 4 Flora**  
**Sheet 2 of 4**

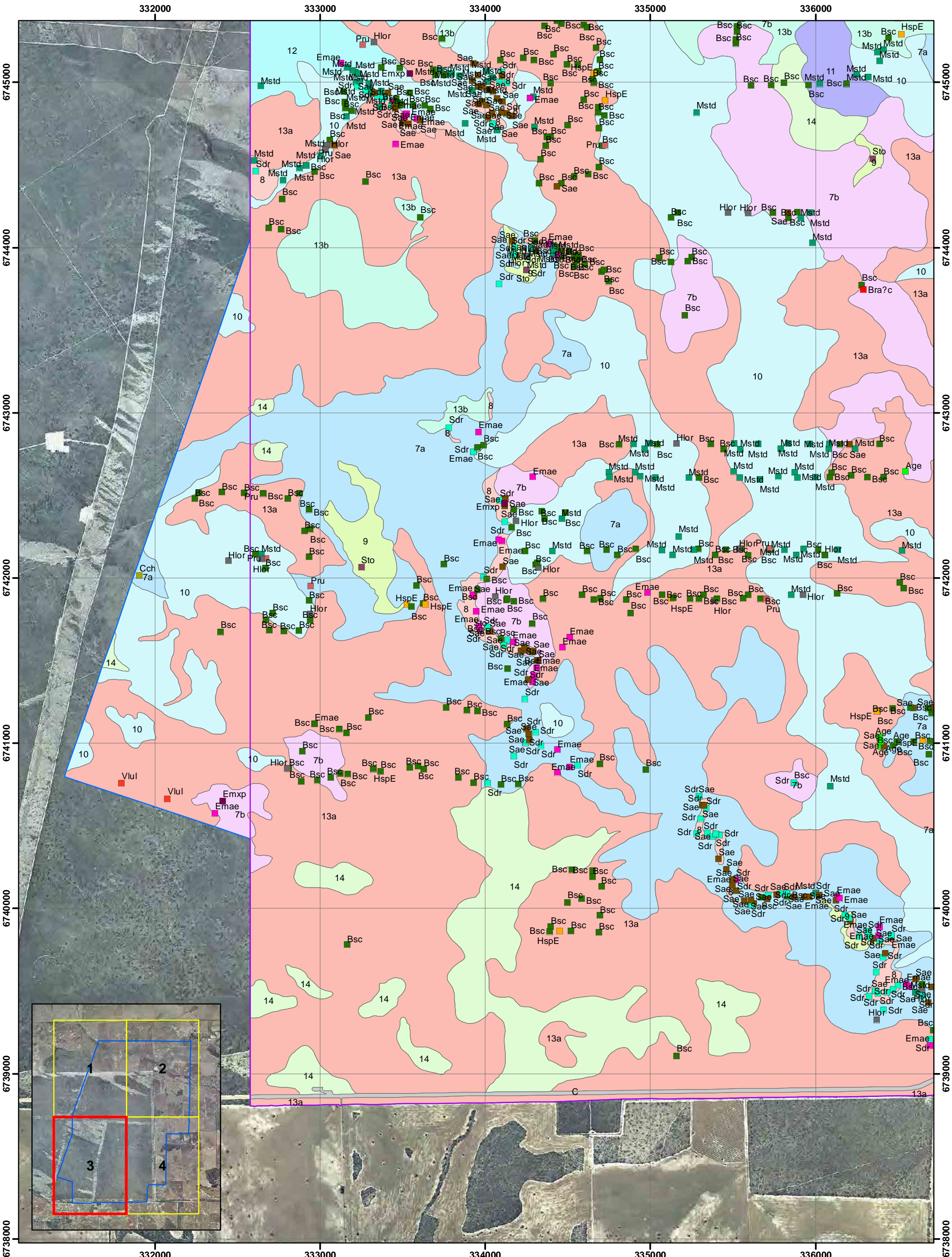
Revision: A - December 2012

Author: David Coultas  
 WEC Ref: Warrego12-33-01  
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Scale: 1:20,000 (A3) Grid: MGA Zone 50

**Figure**  
**6.2**





This map should only be used in conjunction with WEC report Warrego12-33-01.



**Warrego Energy Limited  
West Erregulla Project  
Priority 3 and 4 Flora  
Sheet 3 of 4**

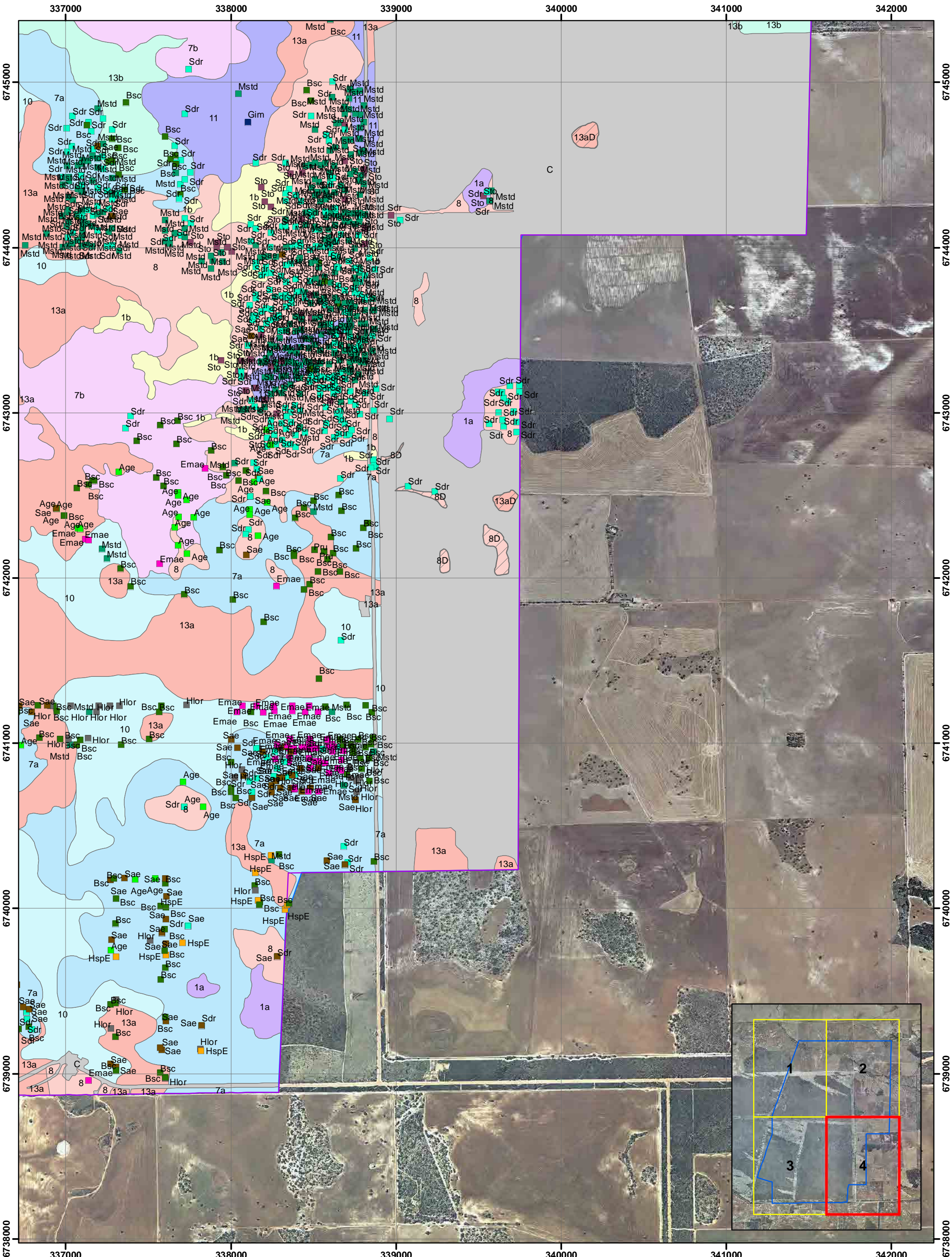
Revision: A - December 2012

Author: David Coultas  
WEC Ref: Warrego12-33-01  
Filename: Warrego12-33-01-f06.mxd

Scale: 1:20,000 (A3) Grid: MGA Zone 50

**Figure  
6.3**





This map should only be used in conjunction with WEC report Warrego12-33-01.



**Warrego Energy Limited  
West Erregulla Project  
Priority 3 and 4 Flora  
Sheet 4 of 4**

Revision: A - December 2012


Author: David Coultas  
WEC Ref: Warrego12-33-01  
Filename: Warrego12-33-01-f06.mxd  
Scale: 1:20,000 (A3) Grid: MGA Zone 50

**Figure  
6.4**




















## Legend







 Project Area Boundary

 Study Area








### Vegetation Types

-  1a Mid open forest of *Eucalyptus accedens* over mid open shrubland dominated by *Gastrolobium spinosum*, *Olearia rudis* and *Anthocercis genistoides* over low open forbland and rushland dominated by *Calandrinia calyptrata*, *Calandrinia corrigioloides*, *Millotia myosotidifolia*, *Trachymene pilosa* and *Conostylis aculeata* subsp. *breviflora* on grey sand on mid slopes
-  1b Mid open forest of *Eucalyptus accedens* over low open shrubland dominated by *Gastrolobium plicatum* and *Dodonaea divaricata* over low open forbland of mixed species including *Goodenia berardiana*, *Rhodanthe manglesii*, *Podolepis lessonii* and *Acanthocarpus canaliculatus* on grey-brown sandy or clay loams on mid-upper slopes
-  2 Mid open forest of *Eucalyptus accedens* or low open forest *E. loxophleba* subsp. *loxophleba* over mid open shrubland dominated by *Rhagodia preissii* subsp. *preissii* and *Melaleuca acutifolia* on grey-brown sandy loams on flats and slopes
-  3 Occasional mid woodland of *Eucalyptus accedens* over mid shrubland dominated by *Melaleuca concreta*, *M. marginata* and *M. acutifolia* over low isolated mixed shrubs and sedges including *Acacia ericksoniae* and *Lepidosperma* sp. A2 Inland Flat (G.J. Keighery 7000) on pink-brown or white clay loams on flats
-  4 Tall closed to open shrubland dominated by *Allocasuarina campestris* or occasionally *Acacia neurophylla* subsp. *neurophylla* over mid open shrubland and sedgeland of mixed species including *Grevillea biternata*, *Melaleuca radula*, *Melaleuca concreta*, *Thryptomene* sp. Mingenew (Diels & Pritzel 332) (P3), *Ecdeiocolea monostachya* and *Thryptomene racemulosa* on grey-brown sand, sandy loam or clay loam, occasionally with granitic pebbles, on slopes and flats adjacent to seasonal creeks
-  5 Tall closed shrubland to shrubland dominated by *Allocasuarina campestris* with occasional *Acacia aciphylla*, *Acacia neurophylla* subsp. *neurophylla* and *Melaleuca viminea* subsp. *viminea* over sparse low shrubland and sedgeland of mixed species including *Ecdeiocolea monostachya* and *Thryptomene racemulosa* over open forbland and grassland of mixed introduced species including *\*Ehrharta longiflora* and *Ursinia anthemoides* on grey or brown sandy or clay loams within and on the banks of seasonal creeks
-  6 Open woodland of *Eucalyptus loxophleba* subsp. *loxophleba* over mid closed shrubland dominated by *Melaleuca marginata* over sparse forbland of mixed species including *Rhodanthe polycephala* on grey-brown clay on slopes above seasonal creeks
-  7a Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species frequently dominated by *Ecdeiocolea monostachya* and *Melaleuca aspalathoides*, or occasionally *M. tinkerii*, *Hakea auriculata* or *Hakea lissocarpha*, on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests
-  7b Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Banksia carlinoides*, *Ecdeiocolea monostachya*, *Hakea incrassata*, *Hibbertia hypericoides* and *Melaleuca aspalathoides* on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests
-  8 Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* over mid shrubland to open shrubland dominated by *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Hakea auriculata*, *Melaleuca radula*, *M. aspalathoides* and *Banksia fraseri* var. *fraseri* on gravelly grey or brown clay loams usually over massive laterite on breakaway tops, ridges and lateritic rises
-  9 Mid to low open shrubland of *Allocasuarina campestris*, *Melaleuca concreta* and *Melaleuca marginata* over low shrubland dominated by *Melaleuca tinkerii* and occasionally *Gastrolobium plicatum* over low shrubland and forbland dominated by *Stylidium torticarpum* (P3), *Leucopogon* sp. Yandanooka (M. Hislop 2507) and *Micromyrtus rogeri* (P1) on gravelly pink-brown or white-grey clay or clay loam over decaying laterite on breakaway tops and slopes
-  10 Mid sparse to open shrubland of mixed species including *Calothamnus quadrifidus* subsp. *angustifolius*, *Grevillea biformis* subsp. *biformis* and *Banksia attenuata* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Melaleuca leuropoma*, *Daviesia divaricata* subsp. *divaricata* ms, *Mesomelaena pseudostygia* and *Banksia shuttleworthiana* on yellow-brown or occasionally grey sand on slopes and valley floors
-  11 Mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Hakea circumalata*, *Lepidobolus preissianus* subsp. *preissianus*, *Mesomelaena pseudostygia* and *M. stygia* subsp. *deflexa* (P3) on yellow or yellow-brown sand or sandy loam on mid to upper slopes
-  12 Occasional mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Beaufortia elegans*, *Hibbertia hypericoides* and *Ecdeiocolea monostachya* on grey or brown sand or sandy loam on mid to upper slopes
-  13a Low open woodland of *Eucalyptus tottiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Banksia scabrella* (P4), *Calothamnus sanguineus*, *Eremaea beaufortii* var. *microphylla*, *Melaleuca* aff. *leuropoma* and *Hibbertia hypericoides* over low shrubland and sedgeland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis canteriata*, *Mesomelaena pseudostygia* and *Caustis dioica* on grey or brown sand on lower and mid slopes
-  13b Low open woodland of *Eucalyptus tottiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Calothamnus sanguineus*, *Hakea trifurcata*, *Hibbertia hypericoides* and *Melaleuca leuropoma* over low shrubland and rushland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis aculeata* subsp. *breviflora* and *Conostylis canteriata* on grey, brown or yellow sand on flats, in depressions and on slopes
-  14 Low open shrubland dominated by *Calothamnus quadrifidus* subsp. *angustifolius*, *Banksia carlinoides*, *Hakea lissocarpha* and *Verticordia densiflora* over low open shrubland, sedgeland and forbland dominated by *Dampiera teres* (broad-leaf variant), *Jacksonia angulata*, *Harperia lateriflora*, *Opercularia vaginata* and *Melaleuca trichophylla* on grey-brown sands, sandy loams and clay loams in minor drainage lines and on flats

### Other Mapped Areas

-  4D Degraded area of VT 4
-  8D Degraded area of VT 8
-  10D Degraded area of VT 10
-  13aD Degraded area of VT 13a
-  PC1D Low woodland of *Acacia acuminata* over introduced pasture grasses and isolated native forbs including *Ptilotus manglesii* and *Arthropodium dyeri* on grey-brown clay loams on flats adjacent to seasonal creeks
-  C Cleared Land

### Conservation Significant Flora

-  Age *Allocasuarina grevilleoides* (P3)
-  Aisi *Acacia isoneura* subsp. *isoneura* (P3)
-  Bga *Beyeria gardneri* (P3)
-  Bra?c *Banksia fraseri* var. *?crebra* (3)
-  Bsc *Banksia scabrella* (P4)
-  Cch *Calytrix chrysantha* (P4)
-  Emae *Eucalyptus macrocarpa* subsp. *elachantha* (P4)
-  Emxp *Eucalyptus macrocarpa* x *pyriformis* (P3)
-  Gim *Guichenotia impudica* (P3)
-  Hlor *Haemodorum loratum* (P3)
-  HspE *Hemiandra* sp. Eneabba (H. Demarz 3687) (P3)
-  Mstd *Mesomelaena stygia* subsp. *deflexa* (P3)
-  Pru *Persoonia rudis* (P3)
-  Sae *Synaphea aephynsa* (P3)
-  Sdr *Stylidium drummondianum* (P3)
-  Sgr *Schoenus griffinianus* (3)
-  Sto *Stylidium torticarpum* (P3)
-  TspM *Thryptomene* sp. Mingenew (Diels & Pritzel 332) (P3)
-  Vlul *Verticordia luteola* var. *luteola* (P3)



This map should only be used in conjunction with WEC report Warrego12-33-01.



Warrego Energy Limited  
West Erregulla Project  
Vegetation Types and Priority 3 and 4  
Conservation Significant Flora Legend

Revision: A - December 2012

Author: David Coultas

WEC Ref: Warrego12-33-01

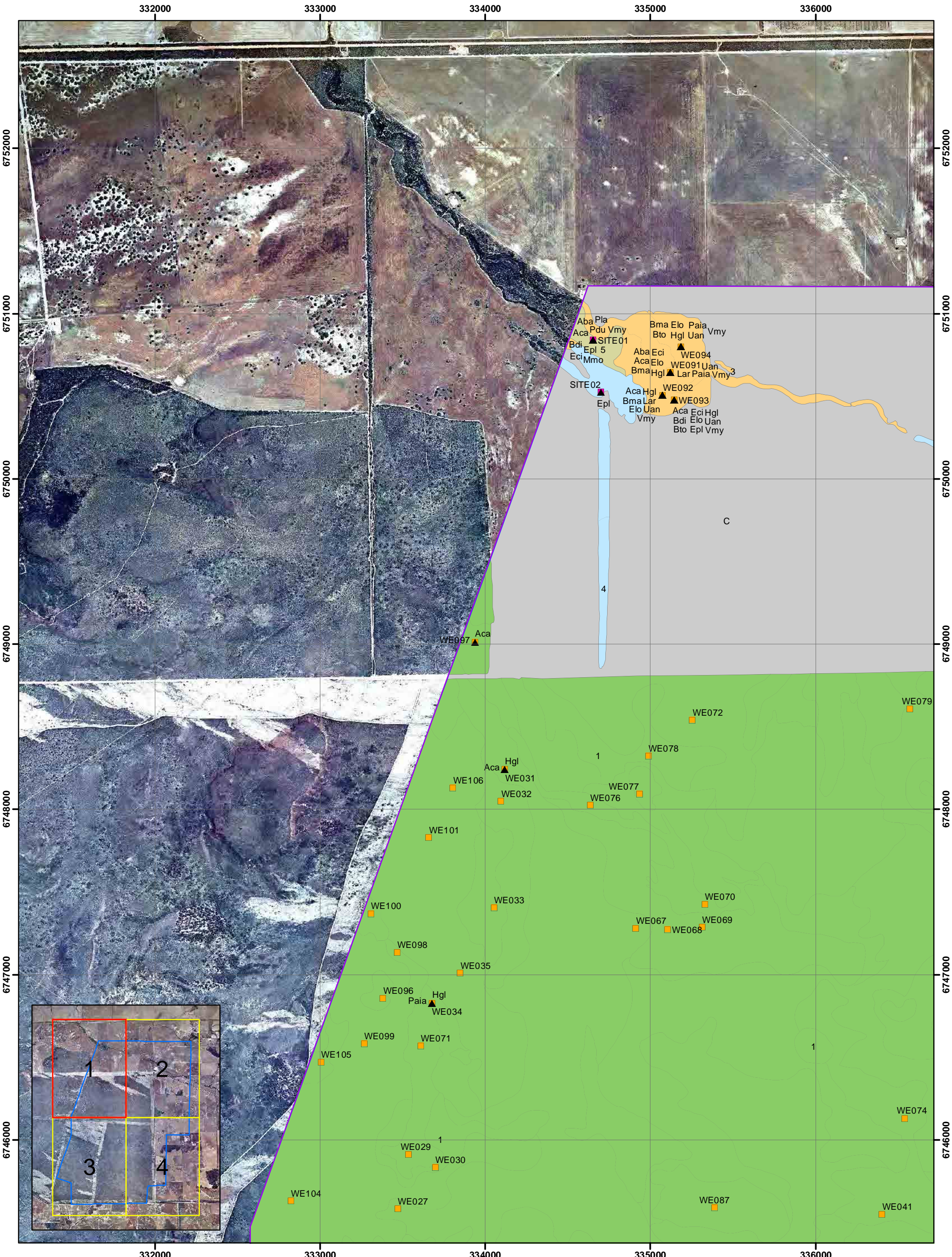
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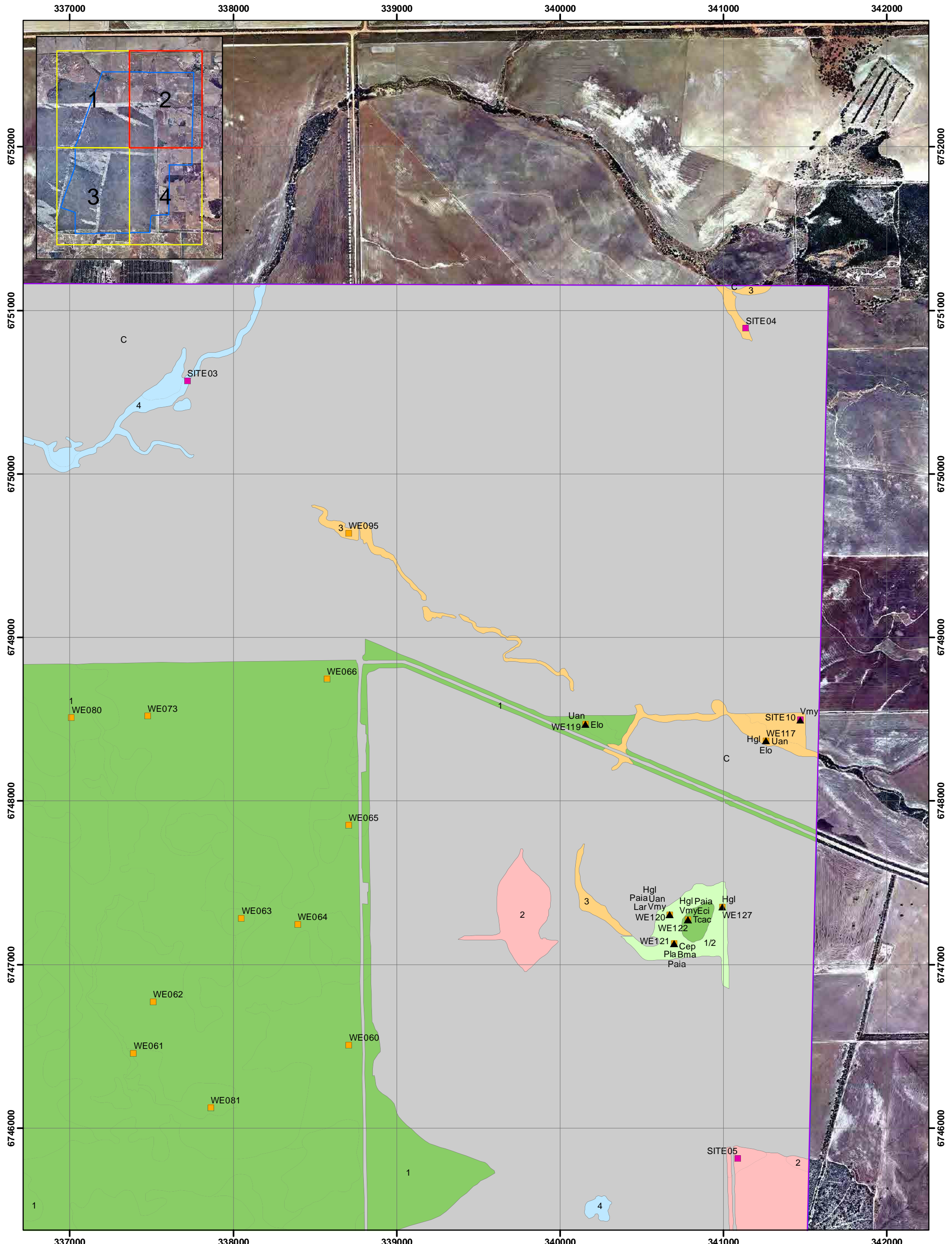
Figure

6

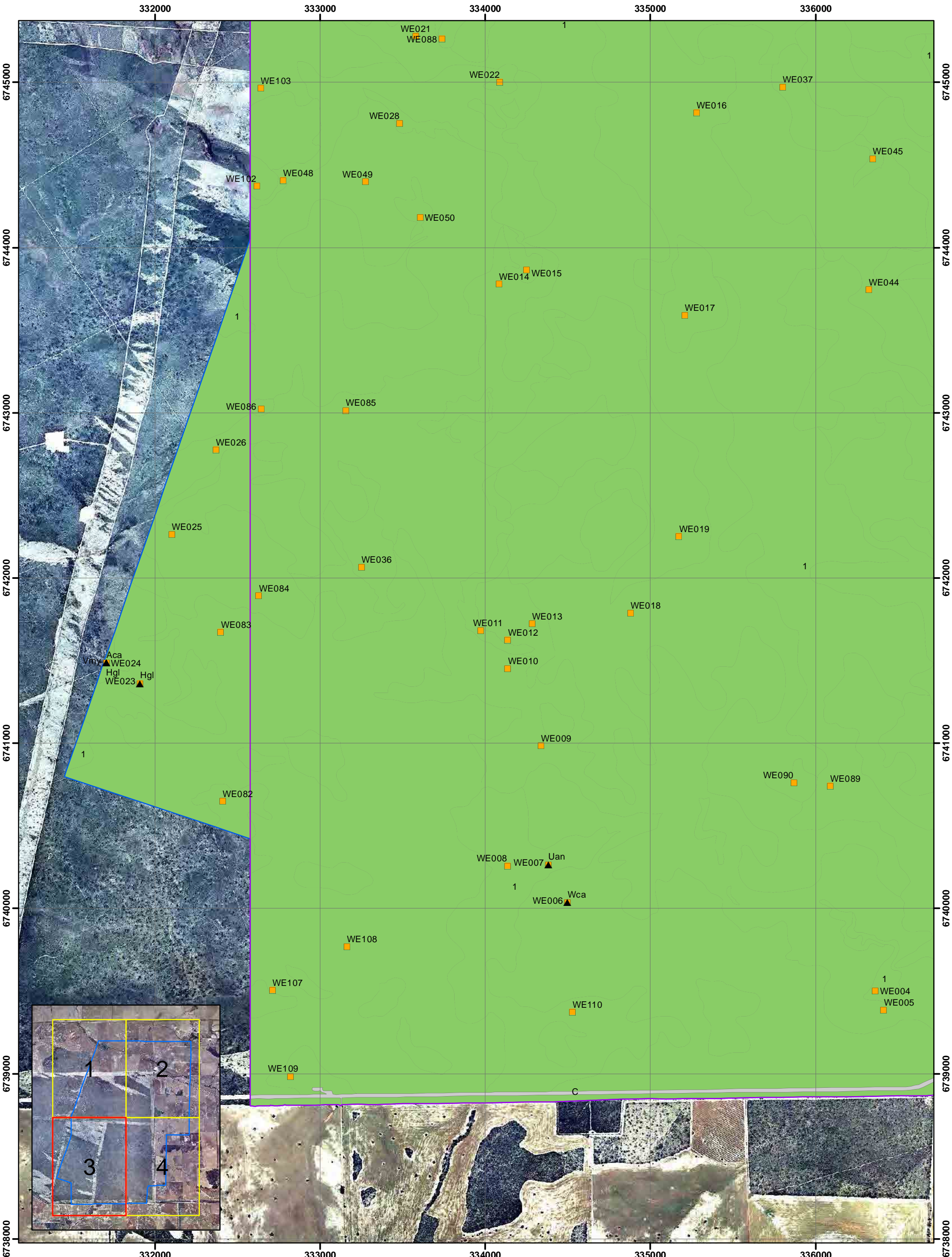












This map should only be used in conjunction with WEC report Warrego12-33-01.



**Warrego Energy Limited  
West Erregulla Project  
Introduced Flora and Vegetation Condition  
Sheet 3 of 4**

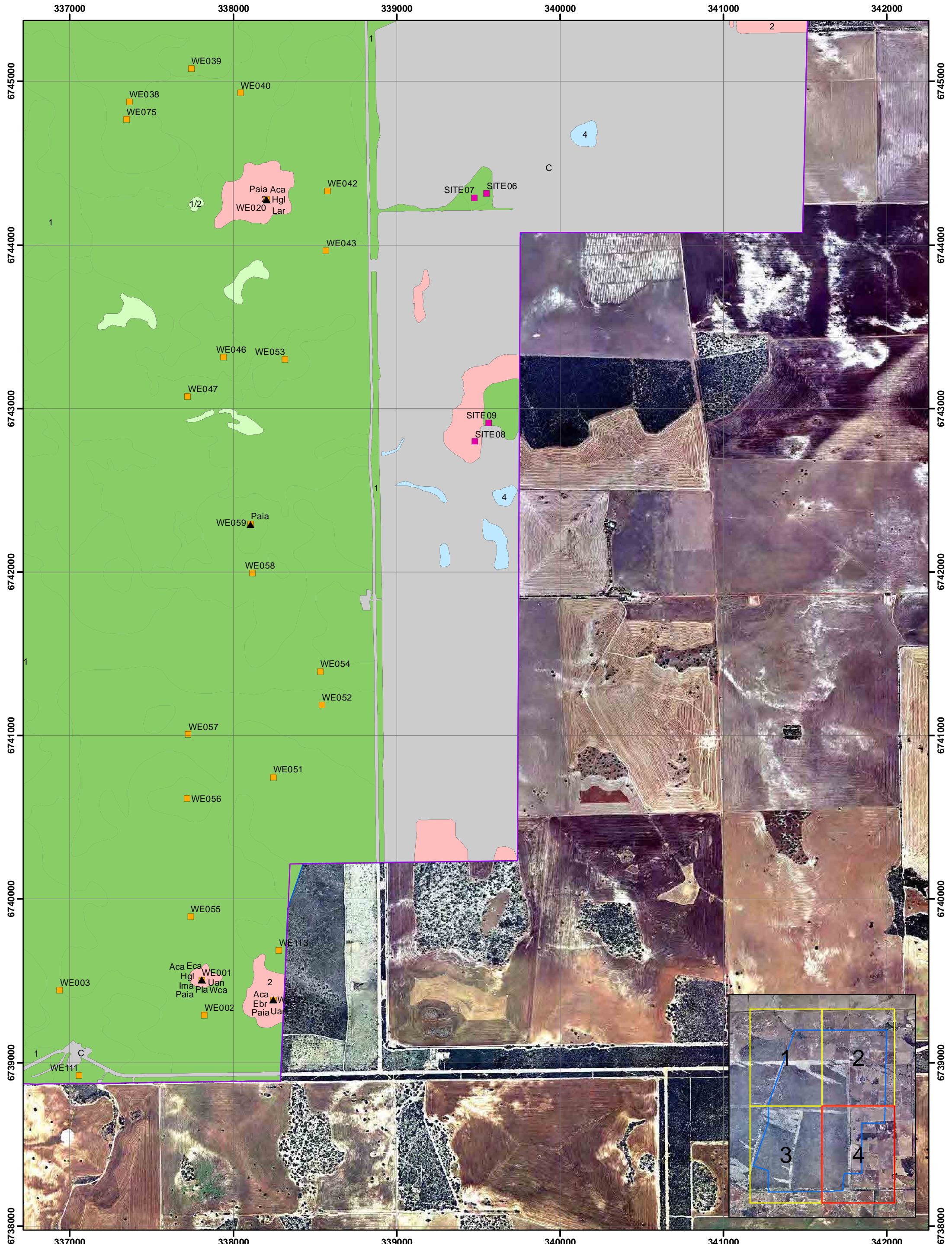
Revision: A - December 2012

Author: David Coultas  
WEC Ref: Warrego12-33-01  
Filename: Warrego12-33-01-f07.mxd

Scale: 1:20,000 (A3) Grid: MGA Zone 50

**Figure  
7.3**







# Legend

- Quadrat
- Detailed Recording Site
- Project Area Boundary
- Study Area

## Condition Code

- 1 Pristine: Pristine or nearly so; no obvious signs of disturbance.
- 1/2 Mosaic of condition rankings 1 and 2
- 2 Excellent: Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.
- 3 Very Good: Some relatively slight signs of damage caused by human activities since European settlement. For example, some signs of damage to tree trunks caused by repeated fire, the presence of some relatively non-aggressive weeds, or occasional vehicle tracks
- 4 Good: More obvious signs of damage caused by human activities since European settlement, including some obvious impact on the vegetation structure such as that caused by low levels of grazing or slightly aggressive weeds
- 5 Poor: Still retains basic vegetation structure or ability to regenerate to it after very obvious impacts of human activities since European settlement, such as grazing, partial clearing, frequent fires or aggressive weeds
- C Cleared land

## ▲ Introduced Flora

### Introduced Flora Taxa

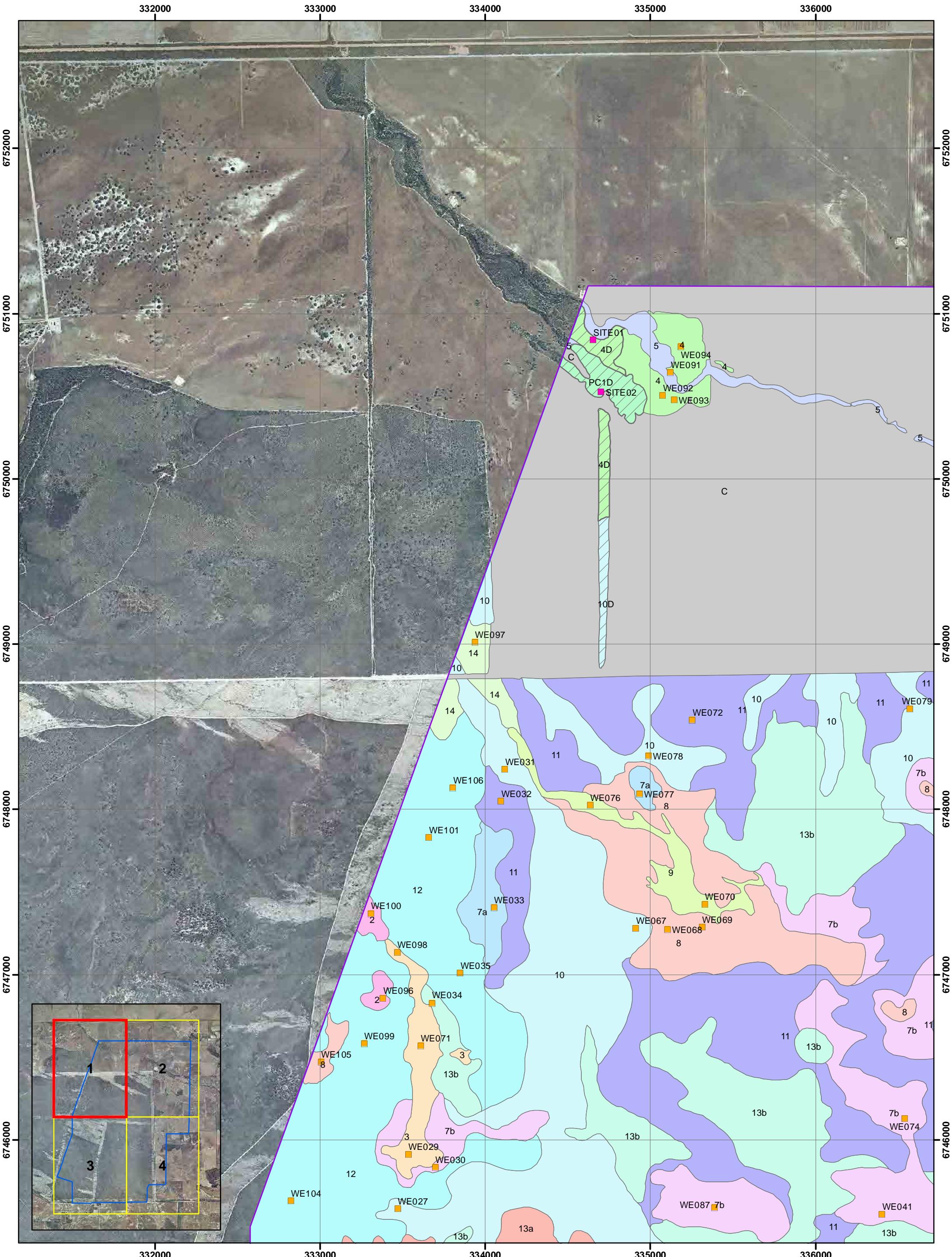
- ▲ Aba \**Avena barbata*
- ▲ Aca \**Arctotheca calendula*
- ▲ Bdi \**Bromus diandrus*
- ▲ Bma \**Briza maxima*
- ▲ Bto \**Brassica tournefortii*
- ▲ Cep \**Cuscuta epithymum*
- ▲ Ebr \**Ehrharta brevifolia*
- ▲ Eca \**Ehrharta calycina*
- ▲ Eci \**Erodium cicutarium*
- ▲ Elo \**Ehrharta longiflora*
- ▲ Epl \**Echium plantagineum*
- ▲ Hgl \**Hypochaeris glabra*
- ▲ Ima \**Isolepis marginata*
- ▲ Lar \**Lysimachia arvensis*
- ▲ Mmo \**Monoculus monstrosus*
- ▲ Paia \**Pentameris airoides* subsp. *airoides*
- ▲ Pdu \**Petrorhagia dubia*
- ▲ Pla \**Parentucellia latifolia*
- ▲ Tcac \**Trifolium campestre* var. *campestre*
- ▲ Uan \**Ursinia anthemoides*
- ▲ Vmy \**Vulpia myuros*
- ▲ Wca \**Wahlenbergia capensis*



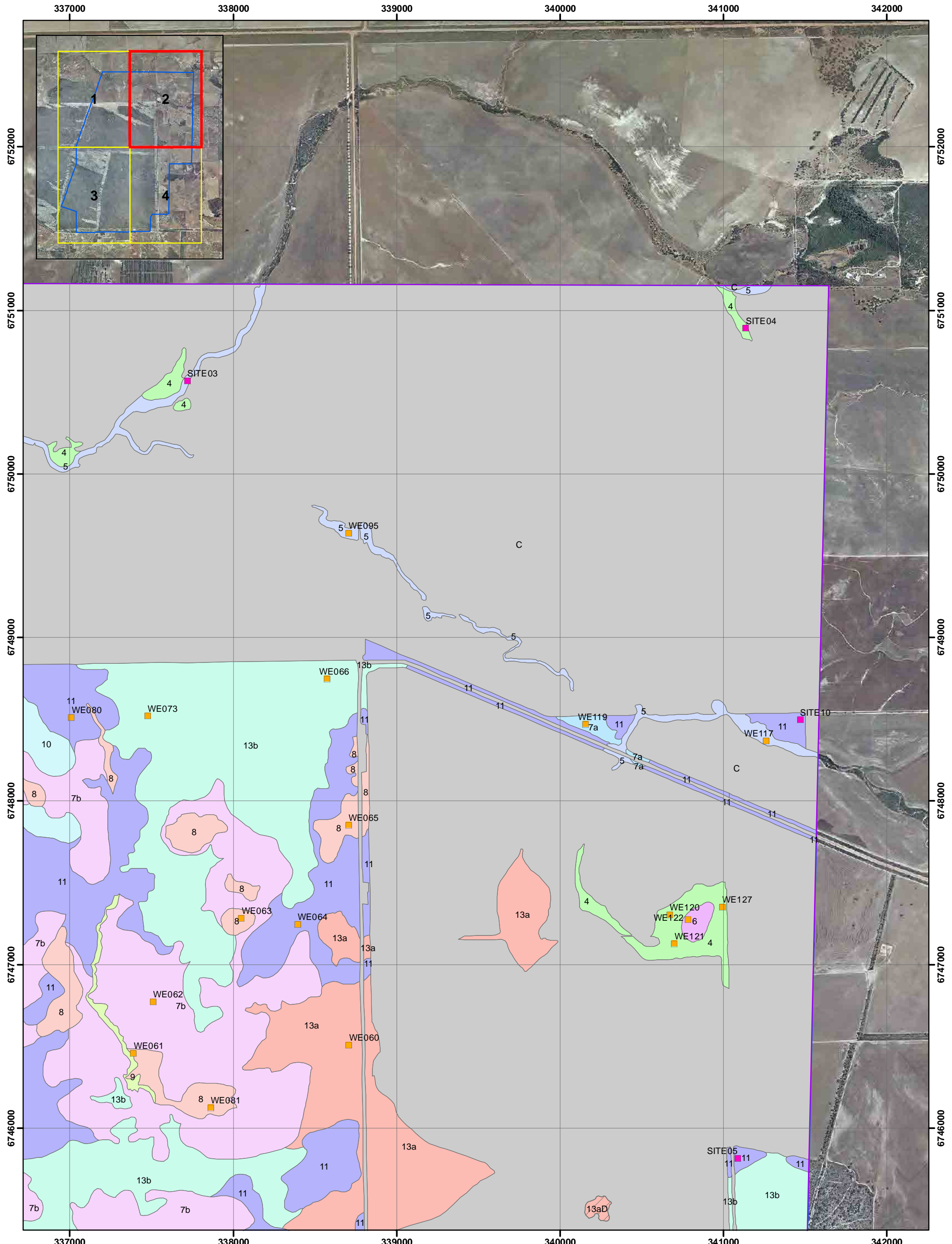
This map should only be used in conjunction with WEC report Warrego12-33-01.

**Warrego Energy Limited  
West Erregulla Project  
Introduced Flora and  
Vegetation Condition Legend**

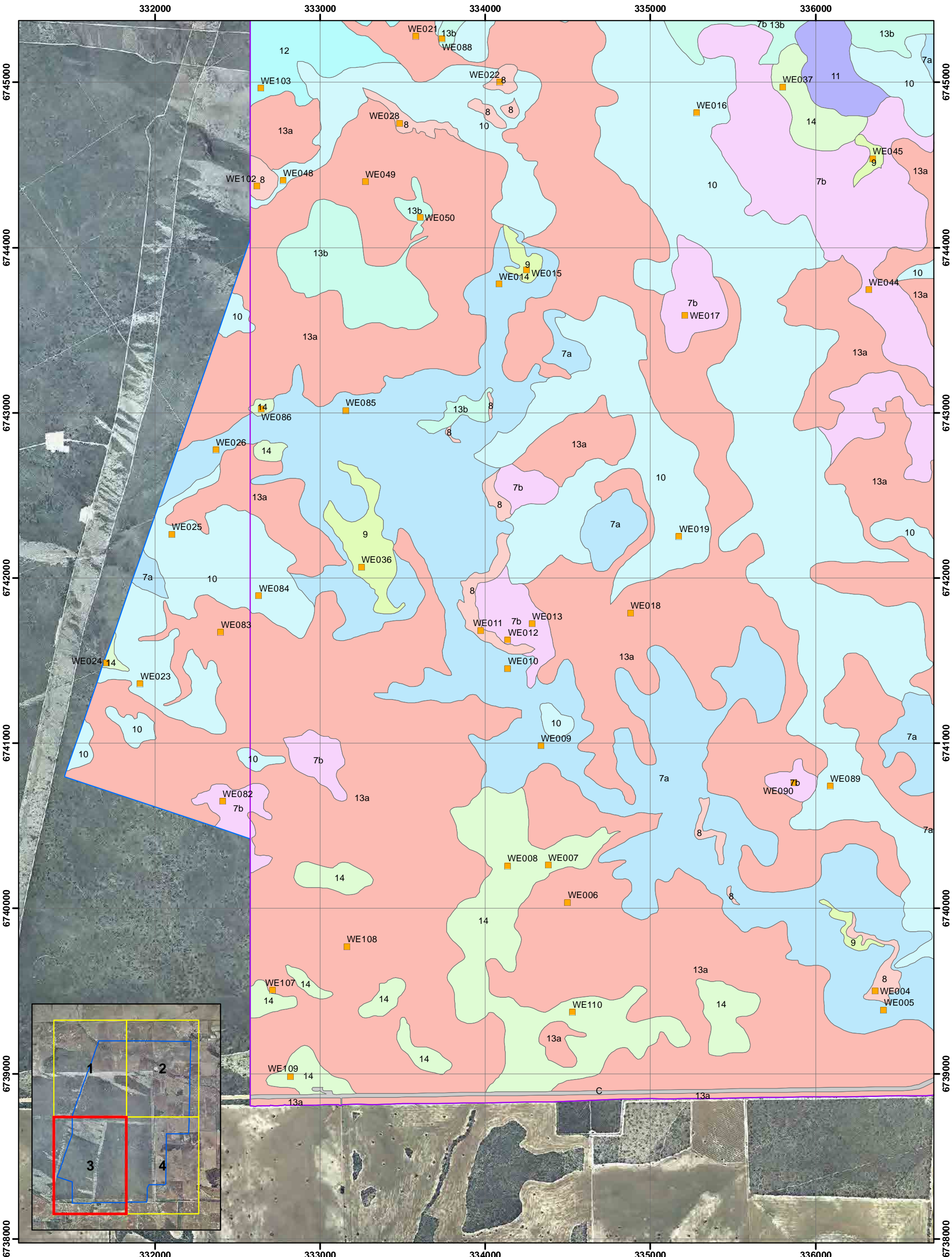












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**Warrego Energy Limited  
West Erregulla Project  
Vegetation Types  
Sheet 3 of 4**

Revision: A - December 2012

Author: David Coultas

WEC Ref: Warrego12-33-01

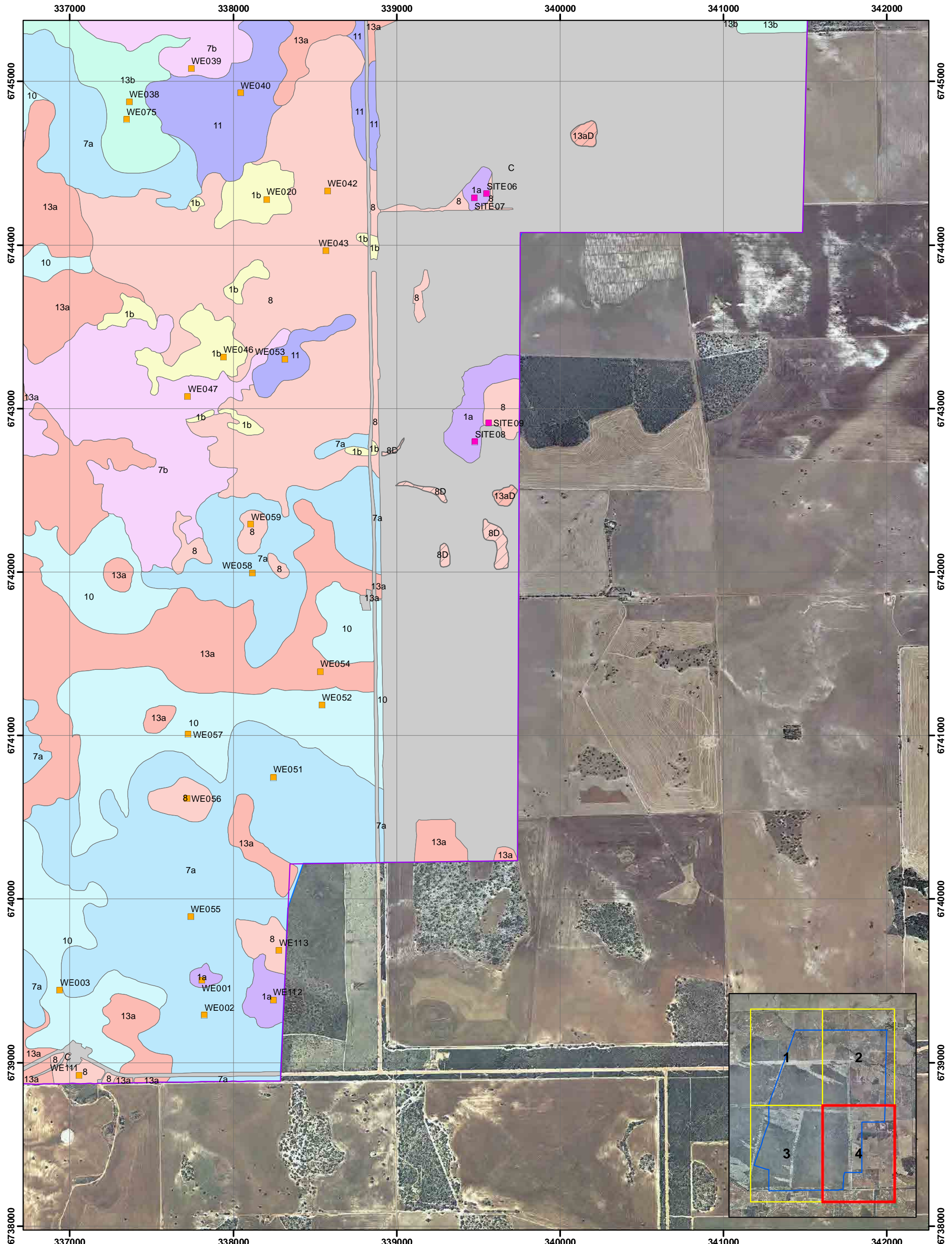
Filename: Warrego12-33-01-f08.mxd

Scale: 1:20,000 (A3) Grid: MGA Zone 50

**Figure**

**8.3**







## Legend



- Quadrat
- Detailed Recording Site
- Project Area Boundary
- Study Area

### Vegetation Types

- 1a Mid open forest of *Eucalyptus accedens* over mid open shrubland dominated by *Gastrolobium spinosum*, *Olearia rudis* and *Anthocercis genistoides* over low open forbland and rushland dominated by *Calandrinia calytrata*, *Calandrinia corrigioloides*, *Millotia myosotidifolia*, *Trachymene pilosa* and *Conostylis aculeata* subsp. *breviflora* on grey sand on mid slopes
- 1b Mid open forest of *Eucalyptus accedens* over low open shrubland dominated by *Gastrolobium plicatum* and *Dodonaea divaricata* over low open forbland of mixed species including *Goodenia berardiana*, *Rhodanthe manglesii*, *Podolepis lessonii* and *Acanthocarpus canaliculatus* on grey-brown sandy or clay loams on mid-upper slopes
- 2 Mid open forest of *Eucalyptus accedens* or low open forest *E. loxophleba* subsp. *loxophleba* over mid open shrubland dominated by *Rhagodia preissii* subsp. *preissii* and *Melaleuca acutifolia* on grey-brown sandy loams on flats and slopes
- 3 Occasional mid woodland of *Eucalyptus accedens* over mid shrubland dominated by *Melaleuca concreta*, *M. marginata* and *M. acutifolia* over low isolated mixed shrubs and sedges including *Acacia ericksoniae* and *Lepidosperma* sp. A2 Inland Flat (G.J. Keighery 7000) on pink-brown or white clay loams on flats
- 4 Tall closed to open shrubland dominated by *Allocasuarina campestris* or occasionally *Acacia neurophylla* subsp. *neurophylla* over mid open shrubland and sedgeland of mixed species including *Grevillea biternata*, *Melaleuca radula*, *Melaleuca concreta*, *Thryptomene* sp. Mingenew (Diels & Pritzel 332) (P3), *Ecdeiocolea monostachya* and *Thryptomene racemulosa* on grey-brown sand, sandy loam or clay loam, occasionally with granitic pebbles, on slopes and flats adjacent to seasonal creeks
- 5 Tall closed shrubland to shrubland dominated by *Allocasuarina campestris* with occasional *Acacia aciphylla*, *Acacia neurophylla* subsp. *neurophylla* and *Melaleuca viminea* subsp. *viminea* over sparse low shrubland and sedgeland of mixed species including *Ecdeiocolea monostachya* and *Thryptomene racemulosa* over open forbland and grassland of mixed introduced species including *\*Ehrharta longiflora* and *Ursinia anthemoides* on grey or brown sandy or clay loams within and on the banks of seasonal creeks
- 6 Open woodland of *Eucalyptus loxophleba* subsp. *loxophleba* over mid closed shrubland dominated by *Melaleuca marginata* over sparse forbland of mixed species including *Rhodanthe polycephala* on grey-brown clay on slopes above seasonal creeks
- 7a Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species frequently dominated by *Ecdeiocolea monostachya* and *Melaleuca aspalathoides*, or occasionally *M. tinkeri*, *Hakea auriculata* or *Hakea lissocarpha*, on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests
- 7b Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* or mid open shrubland of *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Banksia carlinoides*, *Ecdeiocolea monostachya*, *Hakea incrassata*, *Hibbertia hypericoides* and *Melaleuca aspalathoides* on gravelly grey or brown clay loams or sands, usually with laterite on or near the surface, on slopes and crests
- 8 Mid mallee woodland to isolated mallees of *Eucalyptus conveniens* over mid shrubland to open shrubland dominated by *Allocasuarina campestris* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Hakea auriculata*, *Melaleuca radula*, *M. aspalathoides* and *Banksia fraseri* var. *fraseri* on gravelly grey or brown clay loams usually over massive laterite on breakaway tops, ridges and lateritic rises
- 9 Mid to low open shrubland of *Allocasuarina campestris*, *Melaleuca concreta* and *Melaleuca marginata* over low shrubland dominated by *Melaleuca tinkeri* and occasionally *Gastrolobium plicatum* over low shrubland and forbland dominated by *Stylidium torticarpum* (P3), *Leucopogon* sp. Yandanooka (M. Hislop 2507) and *Micromyrtus rogeri* (P1) on gravelly pink-brown or white-grey clay or clay loam over decaying laterite on breakaway tops and slopes
- 10 Mid sparse to open shrubland of mixed species including *Calothamnus quadrifidus* subsp. *angustifolius*, *Grevillea biformis* subsp. *biformis* and *Banksia attenuata* over low shrubland and sedgeland of mixed species dominated by *Ecdeiocolea monostachya*, *Melaleuca leuropoma*, *Daviesia divaricata* subsp. *divaricata* ms, *Mesomelaena pseudostygia* and *Banksia shuttleworthiana* on yellow-brown or occasionally grey sand on slopes and valley floors
- 11 Mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Hakea circumalata*, *Lepidobolus preissianus* subsp. *preissianus*, *Mesomelaena pseudostygia* and *M. stygia* subsp. *deflexa* (P3) on yellow or yellow-brown sand or sandy loam on mid to upper slopes
- 12 Occasional mid sparse to open shrubland of *Allocasuarina campestris* and *Grevillea biformis* subsp. *biformis* over low shrubland and sedgeland dominated by *Beaufortia elegans*, *Hibbertia hypericoides* and *Ecdeiocolea monostachya* on grey or brown sand or sandy loam on mid to upper slopes
- 13a Low open woodland of *Eucalyptus todtiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Banksia scabrella* (P4), *Calothamnus sanguineus*, *Eremaea beaufortoides* var. *microphylla*, *Melaleuca* aff. *leuropoma* and *Hibbertia hypericoides* over low shrubland and sedgeland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis canteriata*, *Mesomelaena pseudostygia* and *Caustis dioica* on grey or brown sand on lower and mid slopes
- 13b Low open woodland of *Eucalyptus todtiana* over mid to low shrubland of mixed species dominated by *Allocasuarina humilis*, *Calothamnus sanguineus*, *Hakea trifurcata*, *Hibbertia hypericoides* and *Melaleuca leuropoma* over low shrubland and rushland of mixed species including *Banksia dallanneyi* subsp. *media*, *Conostylis aculeata* subsp. *breviflora* and *Conostylis canteriata* on grey, brown or yellow sand on flats, in depressions and on slopes
- 14 Low open shrubland dominated by *Calothamnus quadrifidus* subsp. *angustifolius*, *Banksia carlinoides*, *Hakea lissocarpha* and *Verticordia densiflora* over low open shrubland, sedgeland and forbland dominated by *Dampiera teres* (broad-leaf variant), *Jacksonia angulata*, *Harperia lateriflora*, *Opercularia vaginata* and *Melaleuca trichophylla* on grey-brown sands, sandy loams and clay loams in minor drainage lines and on flats

### Other Mapped Areas

- 4D Degraded area of VT 4
- 8D Degraded area of VT 8
- 10D Degraded area of VT 10
- 13aD Degraded area of VT 13a
- PC1D Low woodland of *Acacia acuminata* over introduced pasture grasses and isolated native forbs including *Ptilotus manglesii* and *Arthropodium dyeri* on grey-brown clay loams on flats adjacent to seasonal creeks
- C Cleared Land

 This map should only be used in conjunction with WEC report Warrego12-33-01.	 N	<b>Warrego Energy Limited West Erregulla Project Vegetation Types Legend</b>	Author: David Coultas WEC Ref: Warrego12-33-01 Filename: Warrego12-33-01-f08.mxd	<b>Figure</b>  <span style="font-size: 2em;">8</span>
		Revision: A - December 2012	Scale: 1:20,000 (A3) Grid: MGA Zone 50	

## Appendix A: Definitions, Categories and Criteria for Threatened and Priority Ecological Communities (DEC 2010a)

### DEFINITIONS, CATEGORIES AND CRITERIA FOR THREATENED AND PRIORITY ECOLOGICAL COMMUNITIES

#### 1. GENERAL DEFINITIONS

##### **Ecological Community**

A naturally occurring biological assemblage that occurs in a particular type of habitat.

Note: The scale at which ecological communities are defined will often depend on the level of detail in the information source, therefore no particular scale is specified.

A **threatened ecological community** (TEC) is one which is found to fit into one of the following categories; “presumed totally destroyed”, “critically endangered”, “endangered” or “vulnerable”.

Possible threatened ecological communities that do not meet survey criteria are added to DEC’s Priority Ecological Community Lists under Priorities 1, 2 and 3. Ecological Communities that are adequately known, are rare but not threatened, or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5.

An **assemblage** is a defined group of biological entities.

**Habitat** is defined as the areas in which an organism and/or assemblage of organisms lives. It includes the abiotic factors (eg. substrate and topography), and the biotic factors.

**Occurrence**: a discrete example of an ecological community, separated from other examples of the same community by more than 20 metres of a different ecological community, an artificial surface or a totally destroyed community.

By ensuring that every discrete occurrence is recognised and recorded future changes in status can be readily monitored.

**Adequately Surveyed** is defined as follows:

“An ecological community that has been searched for thoroughly in most likely habitats, by relevant experts.”

**Community structure** is defined as follows:

“The spatial organisation, construction and arrangement of the biological elements comprising a biological assemblage” (eg. *Eucalyptus salmonophloia* woodland over scattered small shrubs over dense herbs; structure in a faunal assemblage could refer to trophic structure, eg. dominance by feeders on detritus as distinct from feeders on live plants).

**Definitions of Modification and Destruction** of an ecological community:

**Modification:** “changes to some or all of ecological processes (including abiotic processes such as hydrology), species composition and community structure as a direct or indirect result of human activities. The level of damage involved could be ameliorated naturally or by human intervention.”

**Destruction:** “modification such that reestablishment of ecological processes, species composition and community structure within the range of variability exhibited by the original community is unlikely within the foreseeable future even with positive human intervention.”

**Note:** Modification and destruction are difficult concepts to quantify, and their application will be determined by scientific judgement. Examples of modification and total destruction are cited below:

**Modification of ecological processes:** The hydrology of Toolibin Lake has been altered by clearing of the catchment such that death of some of the original flora has occurred due to dependence on fresh water. The system may be brought back to a semblance of the original state by redirecting saline runoff and pumping waters of the rising underground watertable away to restore the hydrological balance. Total destruction of downstream lakes has occurred due to hydrology being altered to the point that few of the original flora or fauna species are able to tolerate the level of salinity and/or water logging.

**Modification of structure:** The understorey of a plant community may be altered by weed invasion due to nutrient enrichment by addition of fertiliser. Should the additional nutrients be removed from the system the balance may be restored, and the original plant species better able to compete. Total destruction may occur if additional nutrients continue to be added to the system causing the understorey to be completely replaced by weed species, and death of overstorey species due to inability to tolerate high nutrient levels.

**Modification of species composition:** Pollution may cause alteration of the invertebrate species present in a freshwater lake. Removal of pollutants may allow the return of the original inhabitant species. Addition of residual highly toxic substances may cause permanent changes to water quality, and total destruction of the community.

**Threatening processes** are defined as follows:

“Any process or activity that threatens to destroy or significantly modify the ecological community and/or affect the continuing evolutionary processes within any ecological community.”

Examples of some of the continuing threatening processes in Western Australia include: general pollution; competition, predation and change induced in ecological communities as a result of introduced animals; competition and displacement of native plants by introduced species; hydrological changes; inappropriate fire regimes; diseases resulting from introduced microorganisms; direct human exploitation and disturbance of ecological communities.

**Restoration** is defined as returning an ecological community to its pre-disturbance or natural state in terms of abiotic conditions, community structure and species composition.

**Rehabilitation** is defined as the re-establishment of ecological attributes in a damaged ecological community although the community will remain modified.

## 2. DEFINITIONS AND CRITERIA FOR PRESUMED TOTALLY DESTROYED, CRITICALLY ENDANGERED, ENDANGERED AND VULNERABLE ECOLOGICAL COMMUNITIES

### Presumed Totally Destroyed (PD)

An ecological community that has been adequately searched for but for which no representative occurrences have been located. The community has been found to be totally destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future.

An ecological community will be listed as presumed totally destroyed if there are no recent records of the community being extant and either of the following applies ( A or B):

- A) Records within the last 50 years have not been confirmed despite thorough searches of known or likely habitats or
- B) All occurrences recorded within the last 50 years have since been destroyed

### Critically Endangered (CR)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated.

An ecological community will be listed as **Critically Endangered** when it has been adequately surveyed and is found to be facing an extremely high risk of total destruction in the immediate future. This will be determined on the basis of the best available information, by it meeting **any one or more** of the following criteria (A, B or C):

- A) The estimated geographic range, and/or total area occupied, and/or number of discrete occurrences since European settlement have been reduced by at least 90% **and either or both** of the following apply (i or ii):
  - i) geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is imminent (within approximately 10 years);
  - ii) modification throughout its range is continuing such that in the immediate future (within approximately 10 years) the community is unlikely to be capable of being substantially rehabilitated.
- B) Current distribution is limited, **and one or more** of the following apply (i, ii or iii):
  - i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the immediate future (within approximately 10 years);
  - ii) there are very few occurrences, each of which is small and/or isolated and extremely vulnerable to known threatening processes;



iii) there may be many occurrences but total area is very small and each occurrence is small and/or isolated and extremely vulnerable to known threatening processes.

C) The ecological community exists only as highly modified occurrences that may be capable of being rehabilitated if such work begins in the immediate future (within approximately 10 years).

### **Endangered (EN)**

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future.

An ecological community will be listed as **Endangered** when it has been adequately surveyed and is not Critically Endangered but is facing a very high risk of total destruction in the near future. This will be determined on the basis of the best available information by it meeting **any one or more** of the following criteria (A, B, or C):

A) The geographic range, and/or total area occupied, and/or number of discrete occurrences have been reduced by at least 70% since European settlement **and either or both** of the following apply (i or ii):

i) the estimated geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is likely in the short term future (within approximately 20 years);

ii) modification throughout its range is continuing such that in the short term future (within approximately 20 years) the community is unlikely to be capable of being substantially restored or rehabilitated.

B) Current distribution is limited, **and one or more** of the following apply (i, ii or iii):

i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the short term future (within approximately 20 years);

ii) there are few occurrences, each of which is small and/or isolated and all or most occurrences are very vulnerable to known threatening processes;

iii) there may be many occurrences but total area is small and all or most occurrences are small and/or isolated and very vulnerable to known threatening processes.

C) The ecological community exists only as very modified occurrences that may be capable of being substantially restored or rehabilitated if such work begins in the short-term future (within approximately 20 years).

**Vulnerable (VU)**

An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range.

An ecological community will be listed as **Vulnerable** when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing a high risk of total destruction or significant modification in the medium to long-term future. This will be determined on the basis of the best available information by it meeting **any one or more** of the following criteria (A, B or C):

A) The ecological community exists largely as modified occurrences that are likely to be capable of being substantially restored or rehabilitated.

B) The ecological community may already be modified and would be vulnerable to threatening processes, is restricted in area and/or range and/or is only found at a few locations.

C) The ecological community may be still widespread but is believed likely to move into a category of higher threat in the medium to long term future because of existing or impending threatening processes.

**3. DEFINITIONS AND CRITERIA FOR PRIORITY ECOLOGICAL COMMUNITIES****PRIORITY ECOLOGICAL COMMUNITY LIST**

Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the Priority Ecological Community Lists under Priorities 1, 2 and 3. These three categories are ranked in order of priority for survey and/or definition of the community, and evaluation of conservation status, so that consideration can be given to their declaration as threatened ecological communities. Ecological Communities that are adequately known, and are rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5.

**Priority One:** Poorly-known ecological communities

Ecological communities with apparently few, small occurrences, all or most not actively managed for conservation (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) and for which current threats exist. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.

**Priority Two:** Poorly-known ecological communities

Communities that are known from few small occurrences, all or most of which are actively managed for conservation (e.g. within national parks, conservation parks, nature reserves, State forest, unallocated Crown land, water reserves, etc.) and not under imminent threat of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.

**Priority Three:** Poorly known ecological communities

- (i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or:
- (ii) communities known from a few widespread occurrences, which are either large or within significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or;
- (iii) communities made up of large, and/or widespread occurrences, that may or not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, and inappropriate fire regimes.

Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.

**Priority Four:** Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring.

- (a) Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands.
- (b) Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.
- (c) Ecological communities that have been removed from the list of threatened communities during the past five years.

**Priority Five:** Conservation Dependent ecological communities

Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years..

**Appendix B: Results of Search of the Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC) Database with Regard to Environmental Matters of National Significance**





Australian Government  
Department of Sustainability, Environment,  
Water, Population and Communities

## EPBC Act Protected Matters Report

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

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

Information about the EPBC Act including significance guidelines, forms and application process details can be found at <http://www.environment.gov.au/epbc/assessmentsapprovals/index.html>

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## 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 Administrative Guidelines on Significance - see <http://www.environment.gov.au/epbc/assessmentsapprovals/guidelines/index.html>

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International:</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Areas:</a>	None
<a href="#">Threatened Ecological Communities:</a>	None
<a href="#">Threatened Species:</a>	15
<a href="#">Migratory Species:</a>	8

## Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

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

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

A permit may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species. Information on EPBC Act permit requirements and application forms can be found at <http://www.environment.gov>.

<a href="#">Commonwealth Lands:</a>	None
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	5
<a href="#">Whales and Other Cetaceans:</a>	None
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves:</a>	None

## Extra Information

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

<a href="#">Place on the RNE:</a>	None
<a href="#">State and Territory Reserves:</a>	1
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	9
<a href="#">Nationally Important Wetlands:</a>	None

## Details

### Matters of National Environmental Significance

Threatened Species		[ Resource Information ]
Name	Status	Type of Presence
<b>BIRDS</b>		
<a href="#">Calyptorhynchus latirostris</a>		
Gamaby's Black-Cockatoo, Short-billed Black-Cockatoo (59523)	Endangered	Breeding likely to occur within area

Name	Status	Type of Presence
<a href="#"><u>Leipia ocellata</u></a> Malleefowl [934]	Vulnerable	Species or species habitat may occur within area
<b>PLANTS</b>		
<a href="#"><u>Bankia serratuloides subsp. perissa</u></a> Northern Gerrate Dryandra [82767]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Centrolepis caespitosa</u></a> [6393]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Chortzema humile</u></a> Prostrate Flame Pea [32573]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Conostylis cleistii subsp. ferax</u></a> Irwin Conostylis [3614]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Conostylis micrantha</u></a> Small-flowered Conostylis [17635]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Daviesia speciosa</u></a> Beautiful Daviesia [56698]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Eucalyptus balanites</u></a> Cadda Road Mallee, Cadda Mallee [24264]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Eucalyptus cristata</u></a> Yandanooka Mallee [24268]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Eucalyptus impenza</u></a> Eneabba Mallee [56711]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Eucalyptus leprochloa</u></a> Scaly Butt Mallee, Scaly-butt Mallee [56712]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Eucalyptus rhodantha var. rhodantha</u></a> Rose Mallee, Rose Gum [24627]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Hemiantra oarineri</u></a> Red Snakebush [7945]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Leucopogon oblectus</u></a> Hidden Beard-heath [19614]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Pityrodia axillaris</u></a> Native Foxglove, Woolly Foxglove [17376]	Critically Endangered	Species or species habitat may occur within area
<a href="#"><u>Schoenia filifolia subsp. subulifolia</u></a> [63904]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Stawella dimorphantha</u></a> Arrowsmith Gilt-Hilly [3433]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Wurmbia tubulosa</u></a> Long-flowered Nancy [12739]	Endangered	Species or species habitat may occur within area

Migratory Species		[ Resource Information ]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Anous pacificus</a>		
Fork-tailed Swift (678)		Species or species habitat may occur within area
<a href="#">Ardea alba</a>		
Great Egret, White Egret (59541)		Species or species habitat may occur within area
<a href="#">Ardea ibis</a>		
Cattle Egret (59542)		Species or species habitat may occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Halieetus leucorostrius</a>		
White-bellied Sea-Eagle (943)		Species or species habitat likely to occur within area
<a href="#">Lalooa ocellata</a>		
Malleefowl (934)	Vulnerable	Species or species habitat may occur within area
<a href="#">Merops ornatus</a>		
Rainbow Bee-eater (670)		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Ardea alba</a>		
Great Egret, White Egret (59541)		Species or species habitat may occur within area
<a href="#">Ardea ibis</a>		
Cattle Egret (59542)		Species or species habitat may occur within area

### Other Matters Protected by the EPBC Act

Listed Marine Species		[ Resource Information ]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Anous pacificus</a>		
Fork-tailed Swift (678)		Species or species habitat may occur within area
<a href="#">Ardea alba</a>		
Great Egret, White Egret (59541)		Species or species habitat may occur within area
<a href="#">Ardea ibis</a>		
Cattle Egret (59542)		Species or species habitat may occur within area
<a href="#">Halieetus leucorostrius</a>		
White-bellied Sea-Eagle (943)		Species or species habitat likely to occur within area
<a href="#">Merops ornatus</a>		
Rainbow Bee-eater (670)		Species or species habitat may occur within area



## Extra Information

**State and Territory Reserves** [\[ Resource Information \]](#)

Name	State
Wilson	WA

**Invasive Species** [\[ Resource Information \]](#)

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit,

Name	Status	Type of Presence
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**Mammals**[Capra hircus](#)

Goat [2] Species or species habitat likely to occur within area

[Felis catus](#)

Cat, House Cat, Domestic Cat [19] Species or species habitat likely to occur within area

[Oryctolagus cuniculus](#)

Rabbit, European Rabbit [128] Species or species habitat likely to occur within area

[Sus scrofa](#)

Pig [5] Species or species habitat likely to occur within area

[Vulpes vulpes](#)

Red Fox, Fox [18] Species or species habitat likely to occur within area

**Plants**[Asparagus asparagoides](#)

Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473] Species or species habitat likely to occur within area

[Cenchrus ciliaris](#)

Buffel-grass, Black Buffel-grass [20213] Species or species habitat may occur within area

[Lycium ferocissimum](#)

African Boxthorn, Boxthorn [19235] Species or species habitat may occur within area

[Tamarix aphylla](#)

Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018] Species or species habitat likely to occur within area

## Coordinates

-29.33218 115.23526,-29.33278 115.40658,-29.48685 115.40658,-29.48804 115.23585,  
-29.33218 115.23526

## Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other

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.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

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

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

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

## Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [Department of Environment, Climate Change and Water, New South Wales](#)
- [Department of Sustainability and Environment, Victoria](#)
- [Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [Department of Environment and Natural Resources, South Australia](#)
- [Parks and Wildlife Service NT, NT Dept of Natural Resources, Environment and the Arts](#)
- [Environmental and Resource Management, Queensland](#)
- [Department of Environment and Conservation, Western Australia](#)
- [Department of the Environment, Climate Change, Energy and Water](#)
- [Birds Australia](#)
- [Australian Bird and Bat Banding Scheme](#)
- [Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [Museum Victoria](#)
- [Australian Museum](#)
- [SA 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, Atherton and Canberra](#)
- [University of New England](#)
- [Ocean Biogeographic Information System](#)
- [Australian Government, Department of Defence](#)
- [State Forests of NSW](#)
- 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.

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

[B-Scoping Study of Australia](#)

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**Appendix C: Results of the Interrogation of the Department of Environment and Conservation's W.A Herbarium (WAHerb) Specimen Database, Threatened and Priority Flora Database (TPFL) and Threatened and Priority Flora List (TP List) (DEC 2011b)**

Note: shading denotes taxon that has records located within the Study Area

Taxon	Conservation Code	TPFL	WAHerb	TP List	Preferred Habitat Requirements	Flowering Period
<i>Acacia congesta</i> subsp. <i>cliftoniana</i>	P1			X	Rocky or lateritic loam	Aug-Sep
<i>Acacia flabellifolia</i>	P3			X	Rocky loam, lateritic gravelly soils; low hills and ridges	Aug
<i>Acacia lineolata</i> subsp. <i>multilineata</i>	P1			X	Yellow sand, rocky clay, sand plains	Jun-Aug
<i>Acacia megacephala</i>	P2	X			White or yellow sand, sandplains	Jul-Sep
<i>Acacia vittata</i>	P2			X	Grey sand, sandy clay, margins of seasonal lakes	Aug
<i>Baeckea</i> sp. Billeranga Hills (ME Trudgen 2206)	P1			X	Yellow sand, clayey sand over granite, stoney hills	Sep
<i>Banksia cypholoba</i>	P3		X	X	Sand and gravelly loam	Aug
<i>Banksia elegans</i>	P4		X	X	Yellow, white or red sand, sandplains, low coastal dunes	Oct-Nov
<i>Banksia fraseri</i> var. <i>crebra</i>	P3		X		White sand on slope, low lateritic hill, brown gravelly loam, grey sandy gravel	Jul-Aug
<i>Banksia fraseri</i> var. <i>oxycedra</i>	P3			X	Lateritic gravel, hill slopes and breakaways	Jul-Sep



Taxon	Conservation Code	TPFL	WAHerb	TP List	Preferred Habitat Requirements	Flowering Period
<i>Banksia scabrella</i>	P4		X		White, grey or yellow sand, sometimes with lateritic gravel, sandplains, laterite ridges	Sep-Jan
<i>Banksia trifontinalis</i>	P3			X	Laterite	Aug-Oct
<i>Beyeria gardneri</i>	P3		X		Yellow sand	Aug-Sep
<i>Calectasia cyanea</i>	T (DRF)		X		White, grey or yellow sand, gravel	Jun-Oct
<i>Calectasia palustris</i>	P1		X		White or grey sand, seasonally inundated swamps	Jul-Oct
<i>Calothamnus arcuatus</i>	P2		X	X	Clay loam over sandstone, yellow sand over gravel, grey sand, sandstone, grey shallow sand-loam, siltstone; upland areas, hillside, creek bank, drainage lines	Apr/Jun/ Aug
<i>Calytrix chrysantha</i>	P4		X		Grey or yellow brown sand, flats	Dec-Feb
<i>Calytrix eneabbensis</i>	P4			X	White, grey or yellow sand over laterite, sandplains	Jul-Oct
<i>Comesperma griffinii</i>	P2		X		Yellow or grey sand, plains	Oct
<i>Daviesia speciosa</i>	T (DRF)	X	X		Gravelly lateritic soils, undulating plains, rises	Apr-May
<i>Diuris eburnea</i>	P1		X	X	Damp areas near rivers	Nov
<i>Eryngium pinnatifidum</i> subsp. <i>palustre</i> ms	P3			X	Clay, sandy clay, clay pans, seasonally wet flats	Oct-Nov

Taxon	Conservation Code	TPFL	WAHerb	TP List	Preferred Habitat Requirements	Flowering Period
<i>Eucalyptus abdita</i>	P2		X		Laterite, sandy clay with gravel over laterite, slopes, breakaways	Oct?/Feb
<i>Eucalyptus crispata</i>	T (DRF)	X	X		Sand, loam with lateritic gravel, lateritic breakaways	Mar-Jun
<i>Eucalyptus leprophloia</i>	T (DRF)	X	X		White or grey sand over laterite, valley slopes	Aug-Oct
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	P4	X	X	X	White or grey sand over laterite, hillslopes, ridges, sandplains	Aug-Dec
<i>Eucalyptus macrocarpa</i> x <i>pyriformis</i>	P3	X	X		Sand, lateritic sand soils, hills, rocky, ironstone ridges, sandplains	Apr/Aug-Oct
<i>Frankenia glomerata</i>	P3			X	White, yellow or yellow-brown sand, white-brown sandy clay, margins of or dunes of salt lakes	Nov
<i>Grevillea erinacea</i>	P3		X		White, grey or yellow sand, gravelly soil or sand, amongst medium or low trees, heathlands, sandplains	Jul-Dec
<i>Grevillea makinsonii</i>	P3		X	X	White, yellow or grey sand over laterite, loam, gravel, clay, rocky hills, sandplains, amongst medium or low trees, heathlands, sandplains	Jul-Oct

Taxon	Conservation Code	TPFL	WAHerb	TP List	Preferred Habitat Requirements	Flowering Period
<i>Grevillea murex</i>	T (DRF)			X	Yellow, brown or red sand, clay loam, amongst medium or low trees or tall sclerophyll shrubland	Aug-Oct
<i>Guichenotia alba</i>	P3		X		Sandy and gravelly soils, low lying flats and depressions	Jul-Aug
<i>Guichenotia quasicalva</i> ms	P2			X	Sandy clay over laterite, drainage lines	Sep-Oct
<i>Haloragis foliosa</i>	P3			X	White-grey sand or limestone	Oct
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	P3		X	X	Sand, disturbed sites	Feb
<i>Hensmania stoniella</i>	P3		X	X	White, grey or lateritic sand, often Winter wet	Sep-Nov
<i>Homalocalyx chapmanii</i>	P2		X	X	Yellow or grey-brown sand, undulating plains, weathered granite	Sep-Oct
<i>Hopkinsia anoectocolea</i>	P3			X	White or grey sand, often saline, Winter wet depressions, floodplains, salt lakes	Sep-Dec
<i>Hypocalymma angustifolium</i> subsp. Hutt River (S. Patrick 2982)	T (DRF)			X	Moist, brown black peat-clay, peat-loam, peat, grey clay; swamps, creeks	Aug-Sep
<i>Lasiopetalum ogilvieanum</i>	P1	X	X		White, grey or yellow sand, stoney loam, undulating plains, lateritic rises	Jul-Oct

Taxon	Conservation Code	TPFL	WAHerb	TP List	Preferred Habitat Requirements	Flowering Period
<i>Leucopogon marginatus</i>	T (DRF)			X	Yellow and lateritic gravelly sand, undulating plains	Jul-Aug
<i>Leucopogon</i> sp. Dudawa (M. Hislop & J. Borger MH 3829)	P1			X	Sandstone breakaways, rocky grey loam over sandstone	Sep
<i>Melaleuca sclerophylla</i>	P3		X		Gravelly sand, clayey sand, granite outcrops, rises	Jun-Sep
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	P3		X	X	White, grey or lateritic sand, clay gravel	Mar-Oct
<i>Micromyrtus rogeri</i>	P1	X	X	X	Yellow-brown sandy soils, gravel, laterite, breakaways	Jul-Oct
<i>Micromyrtus uniovula</i>	P2		X		Sandy soil over laterite, rises	Sep-Nov
<i>Paracaleana dixonii</i>	T (DRF)	X	X	X	Grey sand over granite	Oct-Jan
<i>Persoonia filiformis</i>	P2		X		Yellow or white sand over laterite	Nov-Dec
<i>Persoonia rudis</i>	P3		X		White, grey or yellow sand, often over laterite	Sep-Jan
<i>Pityrodia viscida</i>	P3		X		Lateritic sand	Sep-Feb
<i>Schoenus badius</i>	P2		X	X	Grey sand, moist areas	Sep-Oct
<i>Schoenus</i> sp. Eneabba (F. Obbens & C. Godden I154)	P2		X		Grey, yellow or white sand, undulating sandplains, midslopes, tops of rises	Apr
<i>Scholtzia</i> sp. Yandanooka (R. Soullier 646)	P1			X	Dry yellow-red sand, granite, sandplains,	Nov-Dec



Taxon	Conservation Code	TPFL	WAHerb	TP List	Preferred Habitat Requirements	Flowering Period
					outcrops	
<i>Stawellia dimorphantha</i>	P4	X	X	X	White, grey or yellow sand	Jun-Nov
<i>Stylidium drummondianum</i>	P3		X	X	Sand or clayey sand over laterite, upper hillslopes, breakaways, low heath, mallee	Aug-Oct
<i>Stylidium</i> sp. Three Springs (J.A. Wege & C. Wilkins JAW 600)	P2		X		Yellow-brown clayey sand over laterite, yellow-brown clayey loam over granite, ironstone breakaway, loamy soils over granite, clay loams with scattered gravel, rocky hill with lateritic stones	Sep
<i>Stylidium torticarpum</i>	P3		X	X	Sandy clay and clay loam over laterite, adjacent to creek lines, depressions, beneath breakaways, heath or mallee shrubland	Sep-Nov
<i>Synaphea aephyrsa</i>	P3		X		Gravelly laterite, sand over laterite	Jul-Oct
<i>Synaphea oulopha</i>	P1			X	Grey sand, gravelly loam, clay, lateritic breakaways and rises	Jul-Oct
<i>Synaphea sparsiflora</i>	P2	X	X		Sandy loam over laterite	Aug-Sep
<i>Thelymitra stellata</i>	T (DRF)	X			Sand, gravel, lateritic loam	Oct-Nov
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	P3	X	X	X	Yellow sand, loam	Jun-Jul
<i>Thysanotus vernalis</i>	P3		X		Sandy loam	Sep-Oct

Taxon	Conservation Code	TPFL	WAHerb	TP List	Preferred Habitat Requirements	Flowering Period
<i>Triglochin protuberans</i>	P3			X	Red loam, grey mud over clay, Winter wet sites, claypans, near salt lakes, margins of pools	Aug-Oct
<i>Verticordia dasystylis</i> subsp. <i>oestopioia</i>	P1		X	X	Gritty soils over granite, outcrops	Oct
<i>Verticordia densiflora</i> var. <i>roseostella</i>	P3		X		Sandy, gravelly soils	Sep-Dec
<i>Verticordia luteola</i> var. <i>luteola</i>	P3			X	Grey sand over gravel, flats	Nov-Dec
<i>Verticordia luteola</i> var. <i>rosea</i>	P1	X		X	White sand, flats	Dec-Jan
<i>Verticordia penicillaris</i>	P4			X	Shallow gritty soils, granite outcrops	Sep-Oct

## Appendix D: Conservation Codes for Western Australian Flora (DEC 2012a)

Under the Wildlife Conservation Act, the Minister for the Environment may declare species of flora to be protected if they are considered to be in danger of extinction, rare or otherwise in need of special protection. Schedules 1 and 2 deal with those that are threatened and those that are presumed extinct, respectively.

### **T: Threatened Flora (Declared Rare Flora – Extant)**

Taxa which have been adequately searched for and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such (Schedule 1 under the Wildlife Conservation Act 1950).

Threatened Flora (Schedule 1) are further ranked by the Department according to their level of threat using IUCN Red List Criteria:

- CR: Critically Endangered – considered to be facing an extremely high risk of extinction in the wild
- EN: Endangered – considered to be facing a very high risk of extinction in the wild
- VU: Vulnerable – considered to be facing a high risk of extinction in the wild

### **X: Presumed Extinct Flora (Declared Rare Flora – Extinct)**

Taxa that have been adequately searched for and there is no reasonable doubt that the last individual has died, and have been gazetted as such (Schedule 2 under the Wildlife Conservation Act 1950).

Taxa that have not yet been adequately surveyed to be listed under Schedule 1 or 2 are added to the Priority Flora List under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened flora or fauna. Taxa that are adequately known, are rare but not threatened, or meet criteria for Near Threatened, or that have been recently removed from the threatened list for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring. Conservation Dependent species are placed in Priority 5.

#### **1: Priority One – Poorly-known Taxa**

Taxa that are known from one or a few collections or sight records (generally less than 5), all on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, Shire, Westrail and Main Roads WA road, gravel and soil reserves, and active mineral leases and under threat of habitat destruction or degradation. Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes.

#### **2: Priority Two – Poorly-known Taxa**

Taxa that are known from one or a few collections or sight records, some of which are on lands not under imminent threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, vacant Crown land, water reserves, etc.

Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes.

### **3: Priority Three – Poorly-known Taxa**

Taxa that are known from collections or sight records from several localities not under imminent threat, or from few but widespread localities with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Taxa may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and known threatening processes exist that could affect them.

### **4: Priority Four – Rare, Near Threatened and other taxa in need of monitoring**

1. **Rare.** Taxa that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These taxa are usually represented on conservation lands

2. **Near Threatened.** Taxa that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.

3. Taxa that have been removed from the list of threatened species during the past 5 years for reasons other than taxonomy.

### **5: Priority 5 – Conservation Dependent Taxa**

Taxa that are not threatened but are subject to a specific conservation program, the cessation of which would result in the taxon becoming threatened within 5 years.



## Appendix E: Environmental Weed Strategy - Criteria for the Assessment and Rating of Weeds in Terms of their Environmental Impact on Biodiversity (CALM 1999)

### ENVIRONMENTAL WEEDS RATING

- **Invasiveness-** ability to invade bushland in good to excellent condition or ability to invade waterways (Score as yes or no).
- **Distribution** – wide current or potential distribution including consideration of known history of wide spread distribution elsewhere in the world (Score as yes or no).
- **Environmental Impacts** – ability to change the structure, composition and function of ecosystems; in particular an ability to form a monoculture in a vegetation community (Score as yes or no).

#### The Rating System used in the Environmental Weed Strategy for Western Australia

<b>High</b>	A weed species would have to score yes for all three criteria. Rating a weed species as high would indicate prioritising this weed for control and/or research.
<b>Moderate</b>	A weed species would have to score yes for two of the above criteria. Rating a weed species as moderate would indicate that control or research effort should be directed to it if funds are available; however it should be monitored (possibly a reasonably high level of monitoring).
<b>Mild</b>	A weed species scoring one of the criteria. A mild rating would indicate monitoring of the weed and control where appropriate.
<b>Low</b>	A weed species would score none of the criteria. A low ranking would mean that this species would require a low level of monitoring.

**Appendix F: Vegetation Condition Ranking Scale for the South West Botanical Province (Keighery 1994)**

<b>Condition Ranking</b>	<b>Description</b>	<b>Example</b>
1	Pristine or nearly so; no obvious signs of disturbance.	
2	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.	Damage to trees caused by fire, the presence of non-aggressive weeds and occasional vehicle tracks.
3	Vegetation structure altered, obvious signs of disturbance.	Disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.
4	Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it.	Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
5	Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management.	Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds at high density, partial clearing, dieback and grazing.
6	The structure of the vegetation is no longer intact, and the area is completely or almost completely without native species.	These areas are often described as 'parkland cleared' with the flora composing of weed or crop species with isolated native trees and shrubs.

## Appendix G: Vascular Plant Taxa Recorded in the West Erragulla Study Area, 2011 - 2012

Family	Taxon	2011	2012
Amaranthaceae	<i>Ptilotus declinatus</i>	*	
	<i>Ptilotus manglesii</i>	*	*
	<i>Ptilotus stirlingii</i>	*	
Anarthriaceae	<i>Anarthria polyphylla</i>	*	
	<i>Lyginia imberbis</i>	*	
Apiaceae	<i>Actinotus leucocephalus</i>	*	
	<i>Daucus glochidiatus</i>	*	
	<i>Homalosciadium homalocarpum</i>	*	*
	<i>Platysace juncea</i> sens. lat.	*	
	<i>Platysace trachymenioides</i>	*	
	<i>Platysace xerophila</i>	*	
	<i>Xanthosia huegelii</i>	*	*
Araliaceae	<i>Hydrocotyle hispidula</i>	*	
	<i>Trachymene cyanopetala</i>	*	*
	<i>Trachymene ornata</i>	*	*
	<i>Trachymene pilosa</i>	*	*
Asparagaceae	<i>Acanthocarpus canaliculatus</i>	*	
	<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	*	*
	<i>Arthropodium dyeri</i>	*	*
	<i>Chamaescilla corymbosa</i>	*	
	<i>Chamaescilla versicolor</i>	*	*
	<i>Dichopogon preissii</i>	*	
	<i>Laxmannia omnifertilis</i>	*	
	<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	*	*
	<i>Lomandra hastilis</i>	*	
	<i>Lomandra micrantha</i> subsp. <i>micrantha</i>	*	*
	<i>Sowerbaea laxiflora</i>	*	*
	<i>Thysanotus asper</i>	*	
	<i>Thysanotus dichotomus</i>	*	
	<i>Thysanotus manglesianus</i>	*	*
	<i>Thysanotus patersonii</i>	*	*
	<i>Thysanotus pyramidalis</i>	*	*
	<i>Thysanotus sparteus</i>	*	
	<i>Thysanotus ?tenellus</i>	*	
	<i>Thysanotus thyrsoideus</i>	*	
	<i>Thysanotus</i> sp. (unidentified)	*	
<i>Thysanotus</i> sp.		*	
Asteraceae	* <i>Arctotheca calendula</i>	*	*
	<i>Blennospora drummondii</i>	*	*
	<i>Brachyscome iberidifolia</i>	*	*
	<i>Brachyscome perpusilla</i>	*	
	<i>Calotis hispidula</i>	*	
	<i>Gnephosis angianthoides</i>	*	*
	<i>Gnephosis drummondii</i>	*	*
	<i>Gnephosis tenuissima</i>	*	
	<i>Hyalosperma cotula</i>	*	*

Family	Taxon	2011	2012
<b>Asteraceae cont.</b>	<i>*Hypochaeris glabra</i>	*	*
	<i>Lagenophora huegelii</i>	*	
	<i>Millotia myosotidifolia</i>	*	*
	<i>*Monoculus monstrosus</i>	*	*
	<i>Olearia ?dampieri</i>	*	*
	<i>Olearia rudis</i>	*	*
	<i>Podolepis capillaris</i>	*	*
	<i>Podolepis lessonii</i>	*	*
	<i>Podotheca gnaphalioides</i>	*	*
	<i>Pterochaeta paniculata</i>	*	*
	<i>Rhodanthe laevis</i>	*	
	<i>Rhodanthe manglesii</i>	*	*
	<i>Rhodanthe polycephala</i>	*	*
	<i>Senecio pinnatifolius</i> var. <i>latilobus</i>	*	*
	<i>Siloxerus filifolius</i>	*	
	<i>Trichocline spathulata</i>	*	
	<i>*Ursinia anthemoides</i>	*	*
	<i>Waitzia acuminata</i> var. <i>acuminata</i>	*	*
	<i>Waitzia acuminata</i> var. <i>albicans</i>	*	*
	<i>Waitzia suaveolens</i> var. <i>suaveolens</i>	*	
<b>Boraginaceae</b>	<i>*Echium plantagineum</i>	*	*
	<i>Halgania anagalloides</i>	*	
	<i>Halgania</i> sp. Wongan Hills (K.F. Kenneally 2393)	*	
	<i>Borya sphaerocephala</i>	*	*
<b>Boryaceae</b>			
<b>Brassicaceae</b>	<i>*Brassica tournefortii</i>	*	*
<b>Campanulaceae</b>	<i>Isotoma hypocrateriformis</i>	*	
	<i>Lobelia rarifolia</i>	*	
	<i>Lobelia rhytidosperma</i>	*	
	<i>*Wahlenbergia capensis</i>	*	
	<i>Wahlenbergia gracilentia</i>	*	
<b>Caryophyllaceae</b>	<i>*Petrorhagia dubia</i>	*	*
<b>Casuarinaceae</b>	<i>Allocasuarina campestris</i>	*	*
	<i>Allocasuarina grevilleoides</i> (P3)	*	
	<i>Allocasuarina humilis</i>	*	*
	<i>Allocasuarina microstachya</i>	*	*
<b>Celastraceae</b>	<i>Stackhousia dielsii</i>	*	
	<i>Tripterococcus brunonis</i>	*	
<b>Centrolepidaceae</b>	<i>Centrolepis aristata</i>	*	
	<i>Centrolepis pilosa</i>	*	
	<i>Centrolepis polygyna</i>	*	
<b>Chenopodiaceae</b>	<i>Enchylaena tomentosa</i>	*	
	<i>Rhagodia preissii</i> subsp. <i>preissii</i>	*	*
<b>Colchicaceae</b>	<i>Burchardia congesta</i>	*	*
<b>Convolvulaceae</b>	<i>*Cuscuta epithymum</i>	*	*
<b>Crassulaceae</b>	<i>Crassula colorata</i> var. <i>acuminata</i>	*	*
<b>Cyperaceae</b>	<i>Caustis dioica</i>	*	*
	<i>*Isolepis marginata</i>	*	
	<i>Lepidosperma</i> aff. <i>costale</i>	*	



Family	Taxon	2011	2012
<b>Cyperaceae cont.</b>	<i>Lepidosperma brunonianum sens. lat.</i>	*	
	<i>Lepidosperma pubisquameum</i>	*	
	<i>Lepidosperma</i> aff. <i>scabrum</i>	*	
	<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	*	
	<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	*	*
	<i>Lepidosperma tenue</i>	*	*
	<i>Mesomelaena preissii</i>	*	
	<i>Mesomelaena pseudostygia</i>	*	*
	<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (P3)	*	*
	<i>Mesomelaena tetragona</i>	*	*
	<i>Schoenus andrewsii</i>	*	
	<i>Schoenus armeria</i>	*	*
	<i>Schoenus badius</i> (P2)	*	
	<i>Schoenus brevisetis</i>	*	
	<i>Schoenus clandestinus</i>	*	*
	<i>Schoenus curvifolius</i>	*	*
	<i>Schoenus insolitus</i>	*	
	<i>Schoenus minutulus</i>	*	
	<i>Schoenus nanus</i>	*	
	<i>Schoenus pleiostemoneus</i>	*	*
	<i>Schoenus</i> sp. A3 Ciliate Sheaths (K.R. Newbey 9402)	*	*
	<i>Schoenus unispiculatus</i>	*	*
<i>Tetraria microcarpa</i>	*	*	
<b>Dasypogonaceae</b>	<i>Calectasia hispida</i>	*	
	<i>Calectasia narragara</i>	*	*
<b>Dilleniaceae</b>	<i>Hibbertia acerosa</i>	*	
	<i>Hibbertia crassifolia</i>	*	*
	<i>Hibbertia huegelii</i>	*	
	<i>Hibbertia hypericoides</i>	*	*
	<i>Hibbertia spicata</i> subsp. <i>spicata</i>	*	
	<i>Hibbertia subvaginata</i>	*	
<b>Droseraceae</b>	<i>Drosera eneabba</i>	*	
	<i>Drosera erythrorhiza</i>	*	*
	<i>Drosera ?leucoblata</i>	*	
	<i>Drosera macrantha</i> subsp. <i>macrantha</i>	*	*
	<i>Drosera menziesii</i> subsp. <i>menziesii</i>	*	*
	<i>Drosera ?porrecta</i>	*	*
	<i>Drosera pilos</i>	*	*
<b>Ecdeiocoleaceae</b>	<i>Ecdeiocolea monostachya</i>	*	*
<b>Elaeocarpaceae</b>	<i>Tetratheca confertifolia</i>	*	
	<i>Tetratheca paucifolia</i>	*	
<b>Ericaceae</b>	<i>Andersonia lehmanniana</i>	*	
	<i>Astroloma glaucescens</i>	*	*

Family	Taxon	2011	2012	
<b>Ericaceae cont.</b>	<i>Astroloma microdonta</i>	*		
	<i>Astroloma pedicellatum</i> ms	*	*	
	<i>Astroloma serratifolium</i>	*		
	<i>Astroloma xerophyllum</i>	*		
	<i>Conostephium preissii</i>	*		
	<i>Leucopogon glaucifolius</i>	*		
	<i>Leucopogon hamulosus</i>	*		
	<i>Leucopogon hispidus</i>	*	*	
	<i>Leucopogon leptanthus</i>	*		
	<i>Leucopogon planifolius</i>	*		
	<i>Lissanthe powelliae</i>	*		
	<i>Leucopogon</i> sp.	*		
	<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	*	*	
	<i>Leucopogon</i> sp. Burma Road (M. Hislop 2032)	*		
	<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	*	*	
	<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)	*		
	<i>Lysinema pentapetalum</i>	*	*	
	<b>Euphorbiaceae</b>	<i>Beyeria gardneri</i> (P3)	*	
		<i>Monotaxis bracteata</i>	*	*
		<i>Stachystemon axillaris</i>	*	
<b>Fabaceae</b>	<i>Acacia aciphylla</i>		*	
	<i>Acacia acuaria</i>	*		
	<i>Acacia acuminata</i>	*	*	
	<i>Acacia assimilis</i> subsp. <i>assimilis</i>	*		
	<i>Acacia auronitens</i>	*		
	<i>Acacia barbinervis</i> subsp. <i>borealis</i>	*		
	<i>Acacia blakelyi</i>	*	*	
	<i>Acacia comans</i>	*	*	
	<i>Acacia dilatata</i>	*	*	
	<i>Acacia ericksoniae</i>	*	*	
	<i>Acacia fagonioides</i>	*		
	<i>Acacia</i> ? <i>fagonioides</i>		*	
	<i>Acacia</i> ? <i>idiomorpha</i>	*		
	<i>Acacia isoneura</i> subsp. <i>isoneura</i> (P3)	*	*	
	<i>Acacia lasiocarpa</i> var. ? <i>bracteolata</i>	*		
	<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	*	*	
	<i>Acacia multispicata</i>	*		
	<i>Acacia neurophylla</i> subsp. <i>neurophylla</i>	*	*	
	<i>Acacia pulchella</i>	*		
	<i>Acacia rostelifera</i>	*		
<i>Acacia saligna</i>	*	*		
<i>Acacia sessilis</i>	*			
<i>Acacia signata</i>	*			
<i>Acacia stenoptera</i>	*			

Family	Taxon	2011	2012	
<b>Fabaceae (cont.)</b>	<i>Acacia tetragonophylla</i>	*	*	
	<i>Bossiaea eriocarpa</i>	*	*	
	<i>Chorizema aciculare</i> subsp. <i>laxum</i>	*	*	
	<i>Chorizema racemosum</i>	*	*	
	<i>Cristonia biloba</i>	*	*	
	<i>Daviesia angulata</i>	*		
	<i>Daviesia daphnoides</i>	*	*	
	<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	*	*	
	<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	*	*	
	<i>Daviesia incrassata</i> subsp. <i>teres</i>	*	*	
	<i>Daviesia nudiflora</i>	*	*	
	<i>Daviesia oxyclada</i>	*		
	<i>Daviesia pedunculata</i>	*	*	
	<i>Daviesia triflora</i>	*		
	<i>Daviesia ?umbonata</i>	*		
	<i>Gastrolobium bennettsianum</i>	*		
	<i>Gastrolobium callistachys</i>	*	*	
	<i>Gastrolobium plicatum</i>	*	*	
	<i>Gastrolobium spinosum</i>	*	*	
	<i>Gompholobium glutinosum</i>	*		
	<i>Gompholobium knightianum</i>	*		
	<i>Gompholobium laxum</i>	*	*	
	<i>Gompholobium marginatum</i>	*		
	<i>Gompholobium muticum</i>	*		
	<i>Gompholobium pungens</i>	*	*	
	<i>Gompholobium tomentosum</i>	*	*	
	<i>Hovea pungens</i>	*		
	<i>Isotropis cuneifolia</i>	*	*	
	<i>Isotropis drummondii</i>	*		
	<i>Jacksonia angulata</i>	*	*	
	<i>Jacksonia foliosa</i>	*	*	
	<i>Jacksonia hakeoides</i>	*	*	
	<i>Jacksonia macrocalyx</i>	*		
	<i>Jacksonia nutans</i>	*	*	
	<i>Jacksonia restioides</i>	*		
	<i>Jacksonia sternbergiana</i>	*	*	
	<i>Leptosema aphyllum</i>	*		
	<i>Mirbelia floribunda</i>	*		
	<i>Mirbelia trichocalyx</i>	*		
	<i>Sphaerolobium pulchellum</i>	*	*	
	* <i>Trifolium campestre</i> var. <i>campestre</i>	*	*	
	<b>Geraniaceae</b>	* <i>Erodium cicutarium</i>	*	*
	<b>Goodeniaceae</b>	<i>Dampiera alata</i>	*	
<i>Dampiera altissima</i>		*	*	
<i>Dampiera juncea</i>		*	*	
<i>Dampiera lavandulacea</i>		*	*	
<i>Dampiera lindleyi</i>		*	*	
	<i>Dampiera oligophylla</i>	*	*	

Family	Taxon	2011	2012	
<b>Goodeniaceae cont.</b>	<i>Dampiera spicigera</i>	*	*	
	<i>Dampiera teres</i>	*	*	
	<i>Dampiera teres</i> (broad-leaf variant)	*		
	<i>Goodenia berardiana</i>	*		
	<i>Goodenia coerulea</i>	*	*	
	<i>Goodenia hassallii</i>	*		
	<i>Goodenia micrantha</i>	*		
	<i>Goodenia trichophylla</i>	*		
	<i>Lechenaultia biloba</i>	*		
	<i>Lechenaultia hirsuta</i>	*		
	<i>Lechenaultia linarioides</i>	*	*	
	<i>Scaevola canescens</i>	*	*	
	<i>Scaevola glandulifera</i>	*		
	<i>Scaevola phlebopetala</i>	*		
	<i>Scaevola virgata</i>	*		
	<i>Velleia rosea</i>	*		
	<i>Velleia trinervis</i>	*		
	<b>Haemodoraceae</b>	<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	*	*
		<i>Anigozanthos pulcherrimus</i>	*	
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>		*	*	
<i>Conostylis androstemma</i>		*		
<i>Conostylis candicans</i>		*	*	
<i>Conostylis canteriata</i>		*	*	
<i>Conostylis crassinervia</i> subsp. <i>absens</i>		*	*	
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>		*	*	
<i>Conostylis hiemalis</i>		*	*	
<i>Conostylis prolifera</i>		*	*	
<i>Conostylis resinosa</i>		*	*	
<i>Haemodorum brevisepalum</i>		*		
<i>Haemodorum discolor</i>		*		
<i>Haemodorum loratum</i> (P3)		*		
<i>Haemodorum spicatum</i>		*		
<i>Haemodorum venosum</i>		*		
<i>Tribonanthes australis</i>		*		
<b>Haloragaceae</b>		<i>Glischrocaryon aureum</i>	*	*
		<i>Gonocarpus nodulosus</i>	*	*
	<i>Gonocarpus pithyoides</i>	*		
<b>Hemerocallidaceae</b>	<i>Dianella revoluta</i>	*		
	<i>Johnsonia pubescens</i> subsp. <i>pubescens</i>	*	*	
	<i>Tricoryne elatior</i>	*		
<b>Iridaceae</b>	<i>Tricoryne humilis</i>	*		
	<i>Orthrosanthus laxus</i> var. <i>laxus</i>	*		
	<i>Patersonia graminea</i>	*	*	
<b>Lamiaceae</b>	<i>Patersonia occidentalis</i>	*	*	
	<i>Hemiandra rubriflora</i>	*		



Family	Taxon	2011	2012
<b>Lamiaceae cont.</b>	<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687) (P3)	*	
	<i>Hemigenia drummondii</i>	*	*
	<i>Hemiphora bartlingii</i>	*	
	<i>Quoya verbascina</i>	*	*
<b>Lauraceae</b>	<i>Cassytha flava</i>	*	*
	<i>Cassytha glabella</i> forma <i>bicallosa</i>	*	
	<i>Cassytha</i> ? <i>pomiformis</i>	*	
	<i>Cassytha</i> ? <i>racemosa</i>	*	
	<i>Cassytha</i> sp.		*
<b>Loganiaceae</b>	<i>Logania spermacoea</i>	*	
<b>Loranthaceae</b>	<i>Amyema miquelii</i>	*	
	<i>Nuytsia floribunda</i>	*	
<b>Malvaceae</b>	<i>Guichenotia angustifolia</i>	*	
	<i>Guichenotia micrantha</i>	*	*
	<i>Guichenotia sarotes</i>	*	*
	<i>Keraudrenia hermanniifolia</i>	*	
	<i>Lasiopetalum drummondii</i>	*	*
	<i>Lasiopetalum ogilvieanum</i> (P1)	*	
	<i>Lasiopetalum</i> sp. Watheroo (K. Shepherd & C. Wilkins KS 220)	*	
	<i>Babingtonia camphorosmae</i>	*	*
	<i>Baeckea crispiflora</i> var. <i>tenuior</i>	*	*
	<i>Baeckea decipiens</i> (1)		*
	<i>Baeckea grandiflora</i>	*	*
	<i>Baeckea</i> sp. Bunney Road (S. Patrick 4059)	*	
	<i>Beaufortia elegans</i>	*	*
<b>Myrtaceae</b>	<i>Calothamnus longissimus</i>	*	*
	<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	*	*
	<i>Calothamnus sanguineus</i>	*	*
	<i>Calytrix aurea</i>	*	
	<i>Calytrix chrysantha</i> (P4)	*	
	<i>Calytrix depressa</i>	*	
	<i>Calytrix drummondii</i>	*	
	<i>Calytrix flavescens</i>	*	
	<i>Calytrix fraseri</i>	*	
	<i>Calytrix gracilis</i>	*	
	<i>Calytrix leschenaultii</i>	*	
	<i>Calytrix oldfieldii</i>	*	*
	<i>Calytrix sapphirina</i>	*	*
	<i>Calytrix strigosa</i>	*	*
	<i>Darwinia speciosa</i>	*	*
	<i>Eremaea beaufortoides</i> var. <i>microphylla</i>	*	*
	<i>Eremaea ectadioclada</i>	*	*
	<i>Eremaea violacea</i> subsp. <i>violacea</i>	*	
	<i>Eucalyptus abdita</i> (P2)	*	

Family	Taxon	2011	2012
Myrtaceae cont.	<i>Eucalyptus accedens</i>	*	*
	<i>Eucalyptus arachnaea</i> subsp. <i>arachnaea</i>	*	
	<i>Eucalyptus camaldulensis</i> subsp. <i>obtusata</i>	*	
	<i>Eucalyptus conveniens</i>	*	*
	<i>Eucalyptus crispata</i> (T)	*	
	<i>Eucalyptus diminuta</i>	*	
	<i>Eucalyptus drummondii</i>	*	
	<i>Eucalyptus gittinsii</i> subsp. <i>illucida</i>	*	
	<i>Eucalyptus horistes</i>	*	
	<i>Eucalyptus jucunda</i>	*	
	<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	*	*
	<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i> (P4)	*	
	<i>Eucalyptus macrocarpa</i> x <i>pyriformis</i> (P3)	*	
	<i>Eucalyptus opimiflora</i>	*	
	<i>Eucalyptus pyriformis</i>	*	
	<i>Eucalyptus todtiana</i>	*	*
	<i>Eucalyptus</i> sp. (unidentified 2)	*	
	<i>Hypocalymma gardneri</i> (P3)	*	
	<i>Hypocalymma hirsutum</i>	*	*
	<i>Hypocalymma xanthopetalum</i>	*	*
	<i>Leptospermum oligandrum</i>	*	*
	<i>Leptospermum spinescens</i>	*	*
	<i>Malleostemon decipiens</i> (P1)	*	
	<i>Melaleuca acutifolia</i>	*	*
	<i>Melaleuca aspalathoides</i>	*	*
	<i>Melaleuca concreta</i>	*	*
	<i>Melaleuca dichroma</i>	*	
	<i>Melaleuca leuropoma</i>	*	*
	<i>Melaleuca</i> aff. <i>leuropoma</i>	*	*
	<i>Melaleuca marginata</i>	*	*
	<i>Melaleuca radula</i>	*	*
	<i>Melaleuca tinkeri</i>	*	
	<i>Melaleuca trichophylla</i>	*	*
	<i>Melaleuca viminea</i> subsp. <i>viminea</i>	*	*
	<i>Micromyrtus rogeri</i> (P1)	*	
	<i>Pileanthus filifolius</i>	*	
	<i>Scholtzia laxiflora</i>	*	*
	<i>Thryptomene mucronulata</i>	*	
	<i>Thryptomene racemulosa</i>	*	*
	<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332) (P3)	*	*
<i>Verticordia blepharophylla</i>	*		
<i>Verticordia brachypoda</i>	*		
<i>Verticordia centipeda</i>	*		

Family	Taxon	2011	2012	
<b>Myrtaceae cont.</b>	<i>Verticordia chrysantha</i>	*		
	<i>Verticordia chrysanthella</i>	*	*	
	<i>Verticordia densiflora</i> var. <i>densiflora</i>	*	*	
	<i>Verticordia endlicheriana</i> var. <i>manicula</i>	*		
	<i>Verticordia eriocephala</i>	*		
	<i>Verticordia grandis</i>	*	*	
	<i>Verticordia huegelii</i>	*		
	<i>Verticordia laciniata</i>	*		
	<i>Verticordia luteola</i> var. <i>luteola</i> (P3)	*		
	<i>Verticordia monadelpha</i> var. <i>monadelpha</i>	*		
	<i>Verticordia nobilis</i>	*	*	
	<i>Verticordia pennigera</i>	*		
	<i>Verticordia picta</i>	*		
	<b>Orchidaceae</b>	<i>Caladenia flava</i>	*	*
<i>Diuris laxiflora</i>		*		
<i>Diuris setacea</i>		*		
<i>Elythranthera brunonis</i>		*	*	
<i>Leporella fimbriata</i>		*		
<i>Paracaleana dixonii</i> (T)		*		
<i>Paracaleana nigrita</i>		*		
<i>Pterostylis sargentii</i>		*		
<i>Pterostylis vittata</i>		*	*	
<i>Thelymitra benthamiana</i>		*		
<i>Thelymitra stellata</i> (T)		*		
<b>Orobanchaceae</b>		* <i>Parentucellia latifolia</i>	*	*
<b>Phyllanthaceae</b>		<i>Poranthera microphylla</i>	*	
<b>Pittosporaceae</b>		<i>Marianthus bicolor</i>	*	
	<i>Marianthus ringens</i>	*		
<b>Plantaginaceae</b>	<i>Plantago debilis</i>	*		
<b>Poaceae</b>	<i>Amphipogon caricinus</i> var. <i>caricinus</i>	*	*	
	<i>Amphipogon turbinatus</i>	*		
	<i>Austrostipa compressa</i>	*		
	<i>Austrostipa elegantissima</i>	*	*	
	<i>Austrostipa hemipogon</i>	*		
	<i>Austrostipa macalpinei</i>	*	*	
	<i>Austrostipa</i> sp. Marchagee (B.R. Maslin 1407)	*		
	<i>Austrostipa variabilis</i>	*	*	
	* <i>Avena barbata</i>	*	*	
	* <i>Briza maxima</i>	*	*	
	* <i>Bromus diandrus</i>	*	*	
	* <i>Ehrharta brevifolia</i>	*	*	
	* <i>Ehrharta calycina</i>	*		
	* <i>Ehrharta longiflora</i>	*	*	
	<i>Neurachne alopecuroidea</i>	*	*	
	* <i>Pentameris airoides</i> subsp. <i>airoides</i>	*	*	

Family	Taxon	2011	2012
<b>Poaceae cont.</b>	<i>Rytidosperma acerosum</i>	*	*
	<i>Rytidosperma setaceum</i>	*	
	<i>Triodia danthonioides</i>	*	*
	* <i>Vulpia myuros</i>	*	*
<b>Polygalaceae</b>	<i>Comesperma acerosum</i>	*	
	<i>Comesperma calymega</i>	*	
	<i>Comesperma volubile</i>	*	*
<b>Polygonaceae</b>	<i>Muehlenbeckia adpressa</i>	*	*
<b>Portulacaceae</b>	<i>Calandrinia calyptrata</i>	*	
	<i>Calandrinia corrigioloides</i>	*	
	<i>Calandrinia</i> sp. Blackberry (D.M. Porter 171)	*	*
<b>Primulaceae</b>	* <i>Lysimachia arvensis</i>	*	*
<b>Proteaceae</b>	<i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i>	*	
	<i>Banksia attenuata</i>	*	*
	<i>Banksia bipinnatifida</i> subsp. <i>multifida</i>	*	
	<i>Banksia candolleana</i>	*	
	<i>Banksia carlinoides</i>	*	*
	<i>Banksia dallanneyi</i> subsp. <i>media</i>	*	*
	<i>Banksia fraseri</i> var. <i>fraseri</i>	*	*
	<i>Banksia leptophylla</i> var. <i>melletica</i>	*	*
	<i>Banksia menziesii</i>	*	
	<i>Banksia prionotes</i>	*	
	<i>Banksia scabrella</i> (P4)	*	*
	<i>Banksia sessilis</i> var. <i>flabellifolia</i>	*	*
	<i>Banksia shuttleworthiana</i>	*	*
	<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	*	*
	<i>Conospermum nervosum</i>	*	
	<i>Grevillea biformis</i> subsp. <i>biformis</i>	*	*
	<i>Grevillea biternata</i>	*	*
	<i>Grevillea candelabroides</i>	*	
	<i>Grevillea eriostachya</i>	*	
	<i>Grevillea shuttleworthiana</i> subsp. <i>canarina</i>	*	*
	<i>Grevillea umbellulata</i>	*	*
	<i>Hakea auriculata</i>	*	*
	<i>Hakea brownii</i>	*	
	<i>Hakea circumalata</i>	*	*
	<i>Hakea costata</i>	*	*
	<i>Hakea cygna</i> subsp. <i>cygna</i>	*	*
	<i>Hakea incrassata</i>	*	*
	<i>Hakea lissocarpha</i>	*	*
	<i>Hakea meisneriana</i>	*	
	<i>Hakea orthorrhyncha</i> var. <i>filiformis</i>	*	*
	<i>Hakea platysperma</i>	*	
	<i>Hakea polyanthema</i>	*	*



Family	Taxon	2011	2012	
<b>Proteaceae cont.</b>	<i>Hakea prostrata</i>	*		
	<i>Hakea psilorrhyncha</i>	*	*	
	<i>Hakea smilacifolia</i>	*		
	<i>Hakea spathulata</i>	*	*	
	<i>Hakea stenocarpa</i>	*	*	
	<i>Hakea trifurcata</i>	*	*	
	<i>Isopogon divergens</i>	*	*	
	<i>Isopogon tridens</i>	*		
	<i>Lambertia multiflora</i> var. <i>multiflora</i>	*	*	
	<i>Persoonia filiformis</i> (P2)	*		
	<i>Persoonia rudis</i> (P3)	*		
	<i>Petrophile brevifolia</i>	*		
	<i>Petrophile chrysantha</i>	*		
	<i>Petrophile drummondii</i>	*	*	
	<i>Petrophile macrostachya</i>	*	*	
	<i>Petrophile megalostegia</i>	*	*	
	<i>Petrophile scabriuscula</i>	*	*	
	<i>Petrophile seminuda</i>	*		
	<i>Petrophile shuttleworthiana</i>	*	*	
	<i>Stirlingia latifolia</i>	*		
	<i>Stirlingia simplex</i>	*		
	<i>Synaphea aephyrsa</i> (P3)	*	*	
	<i>Synaphea oulopha</i> (P1)	*		
	<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>	*		
	<i>Xylomelum angustifolium</i>	*	*	
	<b>Pteridaceae</b>	<i>Cheilanthes adiantoides</i>	*	*
	<b>Restionaceae</b>	<i>Alexgeorgea nitens</i>	*	*
<i>Chordifex sinuosus</i>		*		
<i>Desmocladus asper</i>		*	*	
<i>Desmocladus lateriticus</i>		*		
<i>Desmocladus parthenicus</i>		*		
<i>Desmocladus semiplanus</i>		*	*	
<i>Harperia lateriflora</i>		*	*	
<i>Lepidobolus chaetocephalus</i>		*		
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>		*	*	
<b>Rhamnaceae</b>		<i>Cryptandra intermedia</i>	*	
<i>Cryptandra intermedia</i> (atypical variant)			*	
<i>Cryptandra myriantha</i>		*	*	
<i>Cryptandra nutans</i>		*	*	
<i>Cryptandra pungens</i>		*		
<i>Cryptandra spyridioides</i>		*		
<i>Polianthion wichurae</i>	*			
<i>Stenanthemum humile</i>	*			
<i>Stenanthemum intricatum</i>	*			
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	*	*		
<i>Stenanthemum ?tridentatum</i>	*			
<i>Trymalium angustifolium</i>	*			

Family	Taxon	2011	2012
<b>Rubiaceae</b>	<i>Opercularia vaginata</i>	*	*
<b>Rutaceae</b>	<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	*	
	<i>Boronia cymosa</i>	*	*
	<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	*	
	<i>Diplolaena eneabbensis</i>	*	*
	<i>Geleznovia verrucosa</i>	*	*
<b>Santalaceae</b>	<i>Leptomeria empetriformis</i>	*	
	<i>Santalum acuminatum</i>	*	*
<b>Sapindaceae</b>	<i>Diplopeltis huegelii</i> subsp. <i>lehmannii</i>	*	
	<i>Dodonaea divaricata</i>	*	
	<i>Dodonaea ericoides</i>	*	*
<b>Solanaceae</b>	<i>Anthocercis genistoides</i>	*	*
<b>Stylidiaceae</b>	<i>Levenhookia octomaculata</i>	*	
	<i>Levenhookia pusilla</i>	*	
	<i>Levenhookia stipitata</i>	*	
	<i>Stylidium adpressum</i>	*	
	<i>Stylidium androsaceum</i>	*	*
	<i>Stylidium caricifolium</i>	*	
	? <i>Stylidium carnosum</i> subsp. <i>Narrow leaves</i> (J.A. Wege 490) (P1)	*	
	<i>Stylidium crossocephalum</i>	*	
	<i>Stylidium dichotomum</i>	*	*
	<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	*	
	<i>Stylidium drummondianum</i> (P3)	*	*
	<i>Stylidium emarginatum</i>	*	
	<i>Stylidium eriopodum</i>	*	
	<i>Stylidium flagellum</i>	*	*
	<i>Stylidium maitlandianum</i>	*	
	<i>Stylidium petiolare</i>	*	*
	<i>Stylidium pseudocaespitosum</i> (P2)	*	
	<i>Stylidium purpureum</i> ms	*	
	<i>Stylidium repens</i>	*	
	<i>Stylidium rigidulum</i>	*	*
	<i>Stylidium</i> sp. <i>Kalbarri</i> (A. Carr 145)	*	*
	<i>Stylidium stenosepalum</i>	*	
	<i>Stylidium torticarpum</i> (P3)	*	*
<b>Thymelaeaceae</b>	<i>Pimelea angustifolia</i>	*	*
	<i>Pimelea imbricata</i> var. <i>piligera</i>	*	
	<i>Pimelea leucantha</i>	*	
	<i>Pimelea sulphurea</i>	*	*
<b>Violaceae</b>	<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>	*	
<b>Vitaceae</b>	<i>Clematicissus angustissima</i>	*	*
<b>Xanthorrhoeaceae</b>	<i>Xanthorrhoea ?brunonis</i>	*	
	<i>Xanthorrhoea drummondii</i>	*	
<b>Zamiaceae</b>	<i>Macrozamia fraseri</i>	*	*

**Appendix H: Raw Data Recorded within Quadrats and Sites 2011 - 2012**

Site Name: WE001  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/09/2011  
 GPS Location: GDA94 (Zone 50) 337808E 6739503N  
 Community: 1a  
 Landform Type: Mid Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 2 - Excellent  
 Disturbance: Exotic Weeds  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
* <i>Arctotheca calendula</i>	0.1	0.1
<i>Austrostipa macalpinei</i>	0.2	0.1
<i>Austrostipa</i> sp. Marchagee (B.R. Maslin 1407)	0.3	0.1
<i>Calandrinia calyptrata</i>	0.1	4
<i>Calandrinia corrigioloides</i>	0.1	1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>		
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.2	0.5
<i>Crassula colorata</i> var. <i>acuminata</i>	0.1	2
<i>Dianella revoluta</i>	0.5	0.3
* <i>Ehrharta calycina</i>	0.3	0.2
<i>Eucalyptus accedens</i>	10	50
<i>Gastrolobium spinosum</i>	1.5	7
<i>Gompholobium pungens</i>	0.2	0.2
<i>Hakea lissocarpha</i>	0.3	0.5
<i>Hovea pungens</i>		
* <i>Hypochoeris glabra</i>	0.1	0.1
* <i>Isolepis marginata</i>	0.1	0.1
<i>Olearia rudis</i>	1	3
<i>Opercularia vaginata</i>	0.1	0.1
* <i>Parentucellia latifolia</i>	0.1	0.1
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Senecio pinnatifolius</i> var. <i>latilobus</i>		



<i>Thysanotus manglesianus</i>		0.1
<i>Trachymene pilosa</i>	0.1	2
* <i>Ursinia anthemoides</i>	0.3	0.2
* <i>Wahlenbergia capensis</i>	0.2	0.1
<i>Wahlenbergia gracilentia</i>	0.1	0.1

**PHOTOS**

Site Name: WE002  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/09/2011  
 GPS Location: GDA94 (Zone 50) 337822E 6739289N  
 Community: 7a  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 Vegetation Condition: 1 - Pristine  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia dilatata</i>	0.3	0.2
<i>Acacia lasiocarpa</i> var. <i>?bracteolata</i>	0.4	0.5
<i>Allocasuarina humilis</i>	0.3	0.2
<i>Allocasuarina microstachya</i>	0.3	0.2
<i>Baeckea grandiflora</i>	0.3	0.2
<i>Banksia fraseri</i> var. <i>?fraseri</i>	0.3	0.3
<i>Boronia cymosa</i>	0.3	0.2
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	0.1	0.1
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Burchardia congesta</i>	0.2	0.1
<i>Calothamnus longissimus</i>	0.5	5
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	10
<i>Calothamnus sanguineus</i>	0.5	1
<i>Cassytha ?racemosa</i>		0.1
<i>Caustis dioica</i>	0.3	0.2
<i>Chamaescilla versicolor</i>	0.1	0.1
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.2	0.1
<i>Dampiera lindleyi</i>	0.4	0.2
<i>Dampiera teres</i> (broad-leaf variant)	0.4	0.2
<i>Daviesia daphnoides</i>	0.4	0.5
<i>Daviesia oxyclada</i>	0.3	0.1
<i>Desmocladius lateriticus</i>	0.2	0.2

<i>Diplolaena eneabbensis</i>	0.4	0.2
<i>Drosera eneabba</i>	0.1	0.1
<i>Drosera pilos</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.4	10
<i>Eucalyptus conveniens</i>	3	15
<i>Geleznowia verrucosa</i>	0.3	0.1
<i>Glischrocaryon aureum</i>	0.5	0.5
<i>Hakea auriculata</i>	0.4	1
<i>Hakea incrassata</i>	0.4	1
<i>Hakea lissocarpha</i>	0.5	3
<i>Hakea spathulata</i>	0.3	0.5
<i>Hibbertia crassifolia</i>	0.2	0.1
<i>Hibbertia hypericoides</i>	0.3	0.1
<i>Laxmannia omnifertilis</i>	0.1	0.1
<i>Lepidosperma brunonianum sens. lat.</i>	0.3	0.1
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.3
<i>Levenhookia pusilla</i>	0.1	0.1
<i>Melaleuca aspalathoides</i>	0.3	15
<i>Mesomelaena preissii</i>	0.2	0.2
<i>Mirbelia floribunda</i>	0.3	0.1
<i>Neurachne alopecuroidea</i>	0.2	0.2
<i>Opercularia vaginata</i>	0.2	0.2
<i>Petrophile brevifolia</i>	0.2	0.1
<i>Polianthion wichurae</i>	0.2	0.2
<i>Pterochaeta paniculata</i>	0.1	0.1
<i>Schoenus armeria</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.1	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.2
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.1	0.1
<i>Stylidium stenosepalum</i>	0.2	0.1
<i>Synaphea aephyrsa</i> (3)	0.2	0.3
<i>Thysanotus manglesianus</i>		0.1
<i>Thysanotus patersonii</i>		0.1
<i>Tricoryne humilis</i>	0.2	0.1
<i>Verticordia laciniata</i>	0.3	0.1
<i>Xanthosia huegelii</i>	0.1	0.1

**PHOTOS**





Site Name: WE003  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 27/09/2011  
 GPS Location: GDA94 (Zone 50) 336938E 6739443N  
 Community: 10  
 Landform Type: Lower Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: S  
 Soil Type: Sand  
 Soil Colour: Yellow  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia auronitens</i>	0.3	0.5
<i>Acacia comans</i>	0.5	0.5
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.2	0.1
<i>Astroloma serratifolium</i>	0.2	0.2
<i>Banksia attenuata</i>	0.5	1
<i>Banksia shuttleworthiana</i>	0.5	5
<i>Burchardia congesta</i>	0.3	0.1
<i>Conospermum boreale</i> subsp. ? <i>ascendens</i>	0.4	1
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.2	0.2
<i>Cryptandra spyridioides</i>	0.2	0.1
<i>Dampiera oligophylla</i>	0.3	0.2
<i>Dampiera teres</i> (broad-leaf variant)	0.2	0.1
<i>Darwinia speciosa</i>	0.2	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.5	2
<i>Daviesia nudiflora</i>	0.4	2
<i>Drosera menziesii</i>	0.2	0.1
<i>Ecdeiocolea monostachya</i>	0.5	15
<i>Eremaea violacea</i> subsp. <i>violacea</i>	0.4	5
<i>Geleznovia verrucosa</i>	0.3	0.1
<i>Grevillea biformis</i> subsp. <i>biformis</i>	1	1

<i>Hakea cygna</i> subsp. <i>cygna</i>		
<i>Hakea polyanthema</i>	0.5	0.3
<i>Hibbertia crassifolia</i>	0.3	0.1
<i>Hibbertia hypericoides</i>	0.2	0.2
<i>Isopogon tridens</i>	0.4	0.2
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	1
<i>Leucopogon leptanthus</i>	0.2	0.2
<i>Leucopogon planifolius</i>	0.3	0.2
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.3	0.1
<i>Levenhookia pusilla</i>	0.1	0.1
<i>Melaleuca leuropoma</i>	0.4	7
<i>Mesomelaena pseudostygia</i>	0.4	10
<i>Mirbelia trichocalyx</i>	0.3	0.1
<i>Monotaxis bracteata</i>	0.1	0.1
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Persoonia filiformis</i> (2)	0.2	0.1
<i>Petrophile macrostachya</i>	0.3	0.2
<i>Pileanthus filifolius</i>	0.4	1
<i>Pimelea sulphurea</i>	0.4	0.1
<i>Podotheca gnaphalioides</i>	0.2	0.1
<i>Scaevola canescens</i>	0.2	0.2
<i>Schoenus clandestinus</i>	0.1	0.3
<i>Scholtzia laxiflora</i>	0.3	0.2
<i>Stylidium adpressum</i>	0.1	0.1
<i>Thysanotus patersonii</i>		0.1
<i>Thysanotus sparteus</i>	0.4	0.1
<i>Trachymene pilosa</i>	0.1	0.1
<i>Tricoryne humilis</i>	0.1	0.1
<i>Xylomelum angustifolium</i>	2	3

**PHOTOS**



Site Name: WE004  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 27/09/2011  
 GPS Location: GDA94 (Zone 50) 336362E 6739499N  
 Community: 8  
 Landform Type: Break-away (other)  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: S  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: Laterite, 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia lasiocarpa</i> var. <i>?bracteolata</i>	0.3	0.1
<i>Allocasuarina campestris</i>	1	5
<i>Allocasuarina humilis</i>	1	5
<i>Anthocercis genistoides</i>		
<i>Banksia fraseri</i> var. <i>?fraseri</i>	0.3	0.5
<i>Boronia cymosa</i>	0.1	0.1
<i>Calothamnus longissimus</i>	0.5	0.5
<i>Chamaescilla versicolor</i>	0.1	0.2
<i>Conostylis androstemma</i>	0.2	0.2
<i>Cristonia biloba</i>	0.2	0.1
<i>Cryptandra myriantha</i>	0.3	0.3
<i>Dampiera lindleyi</i>	0.3	1
<i>Dodonaea ericoides</i>	0.3	0.2
<i>Gastrolobium plicatum</i>	0.4	1
<i>Glischrocaryon aureum</i>	0.5	0.3
<i>Goodenia hassallii</i>	0.2	0.1
<i>Guichenotia sarotes</i>	0.4	0.1
<i>Hakea auriculata</i>	1	1



<i>Hakea incrassata</i>	0.5	5
<i>Hakea lissocarpha</i>	0.4	1
<i>Hakea stenocarpa</i>	0.4	0.2
<i>Hibbertia hypericoides</i>	0.3	0.5
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	0.5
<i>Isotropis drummondii</i>	0.2	0.1
<i>Lepidosperma tenue</i>	0.5	2
<i>Marianthus bicolor</i>	0.5	0.2
<i>Melaleuca concreta</i>		
<i>Melaleuca radula</i>	1	20
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.2	0.2
<i>Polianthion wichurae</i>	0.3	0.1
<i>Pterochaeta paniculata</i>	0.1	0.1
<i>Scaevola virgata</i>	0.3	0.2
<i>Stylidium caricifolium</i>	0.2	0.2
<i>Stylidium drummondianum</i> (3)	0.1	1
<i>Synaphea aephyrsa</i> (3)	0.2	0.2
<i>Tetradlea confertifolia</i>	0.2	0.1
<i>Thysanotus manglesianus</i>		0.1
<i>Trachymene pilosa</i>	0.1	0.1
<i>Tricoryne elatior</i>	0.3	0.2
<i>Trymalium angustifolium</i>	0.3	0.3
<i>Xanthorrhoea drummondii</i>	0.5	0.5

**PHOTOS**



Site Name: WE005  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 27/09/2011  
 GPS Location: GDA94 (Zone 50) 336412E 6739386N  
 Community: 7a  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia comans</i>	0.3	0.5
<i>Allocasuarina campestris</i>	0.4	0.2
<i>Allocasuarina humilis</i>	0.3	0.2
<i>Allocasuarina microstachya</i>	0.4	2
<i>Babingtonia camphorosmae</i>	0.2	0.1
<i>Baeckea crispiflora</i> var. <i>tenuior</i>	0.3	0.2
<i>Banksia carlinoides</i>	0.3	0.2
<i>Banksia fraseri</i> var. <i>?fraseri</i>	0.3	0.5
<i>Banksia shuttleworthiana</i>	0.3	0.5
<i>Boronia cymosa</i>	0.2	0.1
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calytrix flavescens</i>	0.2	0.1
<i>Chamaescilla versicolor</i>	0.1	0.2
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.3	0.1
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Cryptandra myriantha</i>	0.2	0.2
<i>Daviesia daphnoides</i>	0.4	0.5

<i>Daviesia oxyclada</i>	0.2	0.2
<i>Dodonaea ericoides</i>	0.2	0.4
<i>Ecdeiocolea monostachya</i>	0.5	25
<i>Elythranthera brunonis</i>	0.2	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.3	0.2
<i>Gastrolobium plicatum</i>	0.4	0.5
<i>Hakea auriculata</i>	0.5	1
<i>Hakea incrassata</i>	0.4	1
<i>Hakea lissocarpha</i>	0.5	4
<i>Hibbertia crassifolia</i>	0.3	0.1
<i>Hibbertia hypericoides</i>	0.3	0.1
<i>Jacksonia restioides</i>	0.3	1
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.2
<i>Levenhookia pusilla</i>	0.1	0.1
<i>Melaleuca aspalathoides</i>	0.3	25
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.2
<i>Petrophile chrysantha</i>	0.2	0.1
<i>Petrophile shuttleworthiana</i>	0.4	0.5
<i>Pimelea sulphurea</i>	0.3	0.1
<i>Pterochaeta paniculata</i>	0.1	0.1
<i>Schoenus armeria</i>	0.2	0.2
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.2	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.2
<i>Thysanotus patersonii</i>		0.1
<i>Tricoryne humilis</i>	0.1	0.1
<i>Verticordia picta</i>	0.4	0.1



**PHOTOS**



Site Name: WE006  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 27/09/2011  
 GPS Location: GDA94 (Zone 50) 334498E 6740034N  
 Community: 13a  
 Landform Type: Lower Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: W  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.2	0.1
<i>Acacia stenoptera</i>	0.2	0.1
<i>Alexgeorgea nitens</i>	0.1	0.2
<i>Allocasuarina humilis</i>	1.5	6
<i>Andersonia lehmanniana</i>	0.3	0.2
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.2	0.2
<i>Astroloma xerophyllum</i>	0.3	0.2
<i>Baeckea grandiflora</i>	0.4	0.5
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	2
<i>Banksia scabrella</i> (4)	0.4	0.5
<i>Beaufortia elegans</i>	0.4	0.2
<i>Calothamnus sanguineus</i>	0.5	1
<i>Calytrix fraseri</i>	0.4	0.2
<i>Cassytha</i> ? <i>pomiformis</i>	0.1	0.1
<i>Chordifex sinuosus</i>	0.2	0.2
<i>Conostylis canteriata</i>	0.1	0.3
<i>Conostylis hiemalis</i>	0.2	0.1
<i>Cryptandra myriantha</i>	0.1	0.1
<i>Desmocladius semiplanus</i>	0.1	0.3
<i>Eremaea beaufortoides</i> var. <i>microphylla</i>	0.4	4

<i>Eremaea ectadioclada</i>	0.3	0.2
<i>Eucalyptus todtiana</i>	4	5
<i>Gompholobium tomentosum</i>	0.4	1
<i>Goodenia coerulea</i>	0.2	0.1
<i>Hakea psilorrhyncha</i>	1.5	0.5
<i>Hibbertia crassifolia</i>	0.3	0.4
<i>Hibbertia hypericoides</i>	0.4	5
<i>Hibbertia subvaginata</i>	0.5	0.5
<i>Isotropis cuneifolia</i>	0.1	0.1
<i>Jacksonia hakeoides</i>	0.2	0.2
<i>Johnsonia pubescens</i> subsp. <i>pubescens</i>	0.1	0.1
<i>Lambertia multiflora</i> var. <i>multiflora</i>	1.5	6
<i>Lasiopetalum drummondii</i>	0.2	0.2
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Leptospermum oligandrum</i>	0.5	0.5
<i>Leptospermum spinescens</i>	0.4	0.2
<i>Leucopogon hispidus</i>	0.2	0.5
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.5	0.5
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	0.2	0.2
<i>Lyginia imberbis</i>	0.3	0.2
<i>Melaleuca leuropoma</i>	0.4	0.5
<i>Melaleuca</i> aff. <i>leuropoma</i>	1	15
<i>Opercularia vaginata</i>	0.2	0.2
<i>Podotherca gnaphalioides</i>	0.1	0.1
<i>Quoya verbascina</i>	0.4	0.2
<i>Scaevola phlebopetala</i>	0.1	0.1
<i>Schoenus</i> sp. A3 Ciliate Sheaths (K.R. Newbey 9402)	0.3	0.1
<i>Stachystemon axillaris</i>	0.3	0.1
<i>Stylidium crossocephalum</i>	0.1	0.1
<i>Stylidium maitlandianum</i>	0.3	0.1
<i>Stylidium rigidulum</i>	0.1	0.1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.1	0.1
<i>Thysanotus manglesianus</i>		0.1
<i>Trachymene pilosa</i>	0.1	0.1
* <i>Wahlenbergia capensis</i>	0.3	0.1
<i>Xanthosia huegelii</i>	0.1	0.1

**PHOTOS**



Site Name: WE007  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 27/09/2011  
 GPS Location: GDA94 (Zone 50) 334382E 6740263N  
 Community: 14  
 Landform Type: Wetland  
 Slope Class: Level (0 degrees)  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia saligna</i>		
<i>Austrostipa macalpinei</i>	0.2	0.1
<i>Banksia carlinoides</i>	1	10
<i>Caladenia flava</i>	0.1	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	15
<i>Calytrix depressa</i>	0.5	2
<i>Caustis dioica</i>	0.3	0.3
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.1	1
<i>Conostylis canteriata</i>	0.2	0.1
<i>Dampiera teres</i> (broad-leaf variant)	0.4	5
<i>Daviesia oxyclada</i>	0.2	0.1
<i>Diuris laxiflora</i>	0.2	0.1
<i>Drosera menziesii</i>		0.1
<i>Elythranthera brunonis</i>	0.2	0.1
<i>Gnephosis drummondii</i>	0.1	0.1
<i>Goodenia coerulea</i>	0.1	0.1
<i>Grevillea umbellulata</i>	0.3	1
<i>Hakea lissocarpha</i>	1	5
<i>Hakea spathulata</i>	0.3	0.5
<i>Hakea trifurcata</i>	0.5	0.5
<i>Harperia lateriflora</i>	0.2	0.5
<i>Hibbertia acerosa</i>	0.2	0.2



<i>Hyalosperma cotula</i>	0.1	3
<i>Hydrocotyle hispidula</i>	0.1	0.1
<i>Isotoma hypocrateriformis</i>	0.1	0.2
<i>Jacksonia angulata</i>	0.5	2
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Leptosema aphyllum</i>	0.2	0.2
<i>Levenhookia pusilla</i>	0.1	0.3
<i>Melaleuca leuropoma</i>	0.4	0.5
<i>Melaleuca trichophylla</i>	0.3	5
<i>Neurachne alopecuroidea</i>	0.1	0.2
<i>Opercularia vaginata</i>	0.2	2
<i>Podotheca gnaphalioides</i>	0.1	0.3
<i>Pterochaeta paniculata</i>	0.1	0.3
<i>Ptilotus manglesii</i>	0.1	0.1
<i>Schoenus badius</i> (2)	0.1	0.1
<i>Siloxerus filifolius</i>	0.1	0.1
<i>Sowerbaea laxiflora</i>	0.2	0.1
<i>Thysanotus manglesianus</i>		0.1
<i>Trachymene pilosa</i>	0.1	0.3
<i>Tribonanthes australis</i>	0.2	0.1
* <i>Ursinia anthemoides</i>	0.2	0.1
<i>Verticordia blepharophylla</i>	1	0.3
<i>Verticordia densiflora</i> var. <i>densiflora</i>	1.2	15
<i>Wahlenbergia gracilentia</i>	0.1	0.1

**PHOTOS**



Site Name: WE008  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 28/09/2011  
 GPS Location: GDA94 (Zone 50) 334133E 6740257N  
 Community: 14  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia dilatata</i>	0.2	0.1
<i>Allocasuarina humilis</i>	0.3	0.2
<i>Allocasuarina microstachya</i>	0.3	5
<i>Anarthria polyphylla</i>	0.1	0.1
<i>Babingtonia camphorosmae</i>	0.2	0.5
<i>Banksia carlinoides</i>	0.5	10
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.5	0.5
<i>Calytrix depressa</i>	0.3	0.5
<i>Caustis dioica</i>	0.3	0.1
<i>Chamaescilla versicolor</i>	0.1	0.1
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.1	0.1
<i>Conostylis canteriata</i>	0.1	0.1
<i>Dampiera teres</i> (broad-leaf variant)	0.2	0.2
<i>Daviesia angulata</i>	1	2
<i>Drosera menziesii</i>		0.2
<i>Elythranthera brunonis</i>	0.1	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.5	0.5
<i>Goodenia trichophylla</i>	0.2	0.1
<i>Grevillea umbellulata</i>	0.3	0.5
<i>Hakea lissocarpha</i>	0.5	5

<i>Hakea spathulata</i>	0.2	0.2
<i>Hakea trifurcata</i>	0.4	1
<i>Harperia lateriflora</i>	0.2	15
<i>Hibbertia acerosa</i>	0.2	0.2
<i>Hibbertia crassifolia</i>	0.4	0.2
<i>Hyalosperma cotula</i>	0.1	0.2
<i>Jacksonia angulata</i>	0.4	6
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.2	0.3
<i>Lepidosperma</i> aff. <i>scabrum</i>	0.2	0.1
<i>Leporella fimbriata</i>	0.1	0.1
<i>Leucopogon glaucifolius</i>	0.2	0.5
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.4	0.3
<i>Levenhookia pusilla</i>	0.1	0.1
<i>Melaleuca</i> aff. <i>leuropoma</i>	0.4	0.5
<i>Melaleuca leuropoma</i>	0.3	0.5
<i>Melaleuca trichophylla</i>	0.3	10
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Schoenus badius</i> (2)	0.1	0.1
<i>Schoenus brevisetis</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.1	0.1
<i>Stylidium androsaceum</i>	0.1	0.1
<i>Stylidium dichotomum</i>	0.1	0.1
<i>Stylidium petiolare</i>	0.1	0.1
<i>Thysanotus patersonii</i>		0.1
<i>Tribonanthes australis</i>	0.1	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.3	0.1
<i>Verticordia pennigera</i>	0.2	0.1

**PHOTOS**





Site Name: WE009  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 28/09/2011  
 GPS Location: GDA94 (Zone 50) 334338E 6740983N  
 Community: 7a  
 Landform Type: Crest  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: Laterite, 2-10% bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia auronitens</i>	0.1	0.1
<i>Allocasuarina humilis</i>	0.5	1
<i>Allocasuarina microstachya</i>	0.2	0.2
<i>Astroloma glaucescens</i>	0.4	0.2
<i>Baeckea grandiflora</i>	0.4	4
<i>Banksia carlinoides</i>	0.5	5
<i>Banksia fraseri</i> var. <i>?fraseri</i>	0.5	5
<i>Banksia shuttleworthiana</i>	0.3	2
<i>Boronia cymosa</i>	0.3	0.2
<i>Burchardia congesta</i>	0.3	0.1
<i>Caladenia flava</i>	0.3	0.5
<i>Cassytha glabella</i> forma <i>bicallosa</i>	0.1	0.1
<i>Caustis dioica</i>	0.3	0.2
<i>Chamaescilla versicolor</i>	0.1	0.1
<i>Conostylis androstemma</i>	0.2	0.3
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Cristonia biloba</i>	0.3	0.2
<i>Dampiera lindleyi</i>	0.3	0.5

<i>Dampiera teres (broad-leaf variant)</i>	0.3	0.2
<i>Darwinia speciosa</i>	0.2	0.1
<i>Dodonaea ericoides</i>	0.2	0.2
<i>Ecdeiocolea monostachya</i>	0.5	20
<i>Elythranthera brunonis</i>	0.2	0.1
<i>Eremaea beaufortoides</i> var. <i>microphylla</i>	0.4	0.5
<i>Gastrolobium plicatum</i>	0.4	0.5
<i>Glischrocaryon aureum</i>	0.4	0.2
<i>Hakea auriculata</i>	0.5	5
<i>Hakea lissocarpha</i>	0.5	3
<i>Hakea stenocarpa</i>	0.3	0.2
<i>Hibbertia hypericoides</i>	0.4	0.5
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	0.5
<i>Isopogon divergens</i>	0.4	0.2
<i>Jacksonia restioides</i>	0.3	0.2
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.1
<i>Melaleuca aspalathoides</i>	0.3	25
<i>Melaleuca tinkeri</i>		
<i>Mesomelaena pseudostygia</i>	0.3	0.5
<i>Mesomelaena tetragona</i>	0.3	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Petrophile brevifolia</i>	0.3	0.1
<i>Petrophile shuttleworthiana</i>	0.5	2
<i>Pimelea sulphurea</i>	0.5	0.2
<i>Scaevola canescens</i>	0.2	0.1
<i>Schoenus brevisetis</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Stylidium drummondianum</i> (3)	0.1	0.2
<i>Thysanotus dichotomus</i>	0.3	0.2
<i>Thysanotus patersonii</i>	0.1	0.1
<i>Velleia trinervis</i>		

**PHOTOS**



Site Name: WE010  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 28/09/2011  
 GPS Location: GDA94 (Zone 50) 334136E 6741451N  
 Community: 7a  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia dilatata</i>	0.3	0.5
<i>Allocasuarina humilis</i>	0.3	0.2
<i>Astroloma glaucescens</i>	0.3	0.2
<i>Babingtonia camphorosmae</i>	0.3	0.2
<i>Baeckea grandiflora</i>	0.3	0.2
<i>Banksia carlinoides</i>	0.5	0.5
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.2	0.2
<i>Banksia scabrella</i> (4)	1	1
<i>Boronia cymosa</i>	0.2	0.2
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	0.3	0.1
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Calothamnus sanguineus</i>	0.5	2
<i>Calytrix flavescens</i>	0.3	0.5
<i>Calytrix leschenaultii</i>	0.2	0.2
<i>Caustis dioica</i>	0.3	0.2
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.2	0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.1	0.1
<i>Conostylis androstemma</i>	0.3	0.5
<i>Conostylis canteriata</i>	0.2	0.1
<i>Cryptandra pungens</i>	0.4	0.2
<i>Dampiera lindleyi</i>	0.3	2
<i>Darwinia speciosa</i>	0.2	0.1

<i>Daviesia daphnoides</i>	0.4	0.3
<i>Daviesia oxyclada</i>	0.3	0.1
<i>Desmocladius lateriticus</i>	0.3	0.3
<i>Diplolaena eneabbensis</i>	0.3	0.2
<i>Dodonaea ericoides</i>	0.2	0.2
<i>Drosera menziesii</i>		0.1
<i>Elythranthera brunonis</i>	0.2	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.3	0.2
<i>Eucalyptus conveniens</i>	2	10
<i>Gastrolobium plicatum</i>	0.5	3.5
<i>Glischrocaryon aureum</i>	0.3	0.3
<i>Goodenia trichophylla</i>	0.1	0.1
<i>Hakea incrassata</i>	0.4	1
<i>Hakea lissocarpha</i>	0.3	0.2
<i>Hakea spathulata</i>	0.3	1
<i>Hibbertia hypericoides</i>	0.3	3
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	0.2
<i>Hypocalymma xanthopetalum</i>	0.2	0.1
<i>Jacksonia restioides</i>	0.3	2
<i>Laxmannia omnifertilis</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.2
<i>Lepidosperma pubisquamum</i>	0.3	0.1
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	0.4	1
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.1
<i>Lepidosperma tenue</i>	0.2	0.2
<i>Levenhookia pusilla</i>	0.1	0.1
<i>Melaleuca</i> aff. <i>leuropoma</i>	1	5
<i>Melaleuca tinkerii</i>	0.4	10
<i>Melaleuca trichophylla</i>	0.2	5
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.2
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Petrophile chrysantha</i>	0.5	15
<i>Pimelea sulphurea</i>	0.4	0.1
<i>Polianthion wichurae</i>	0.4	1
<i>Poranthera microphylla</i>	0.1	0.1
<i>Schoenus brevisetis</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Schoenus curvifolius</i>	0.2	0.1
<i>Schoenus nanus</i>	0.1	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.2	0.1



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<i>Thysanotus dichotomus</i>	0.3	0.2
<i>Thysanotus manglesianus</i>		0.1
<i>Tricoryne humilis</i>	0.1	0.1
<i>Velleia trinervis</i>	0.2	0.3
<i>Xanthosia huegelii</i>	0.1	0.1

**PHOTOS**

Site Name: WE011  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 28/09/2011  
 GPS Location: GDA94 (Zone 50) 333971E 6741681N  
 Community: 8  
 Landform Type: Break-away (other)  
 Slope Class: Steep (23 degrees)  
 Aspect: S  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: Laterite, 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia lasiocarpa</i> var. <i>?bracteolata</i>	0.2	0.2
<i>Allocasuarina campestris</i>	1	20
<i>Austrostipa macalpinei</i>	0.1	0.1
<i>Baeckea grandiflora</i>	0.3	0.1
<i>Banksia fraseri</i> var. <i>?fraseri</i>	0.4	0.3
<i>Boronia cymosa</i>	0.2	0.2
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	5
<i>Chamaescilla corymbosa</i>	0.1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Comesperma volubile</i>		
<i>Cryptandra myriantha</i>	0.3	0.2
<i>Cryptandra pungens</i>	0.4	0.2
<i>Dampiera lindleyi</i>	0.4	1
<i>Dodonaea ericoides</i>	0.2	0.2
<i>Drosera macrantha</i>		0.2
<i>Ecdeiocolea monostachya</i>	0.4	0.5
<i>Gastrolobium plicatum</i>	0.4	1
<i>Glischrocaryon aureum</i>	0.5	0.5

<i>Hakea auriculata</i>	0.5	1
<i>Hakea incrassata</i>	0.3	0.2
<i>Hakea lissocarpha</i>	0.5	0.5
<i>Hibbertia hypericoides</i>	0.4	1
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	0.3
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	3
<i>Lepidosperma tenue</i>	0.4	0.5
<i>Levenhookia pusilla</i>	0.1	0.1
<i>Marianthus bicolor</i>	0.5	2
<i>Melaleuca concreta</i>	1	2
<i>Melaleuca marginata</i>		
<i>Melaleuca radula</i>	1	5
<i>Melaleuca tinkeri</i>	0.4	0.5
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Polianthion wichurae</i>	0.1	0.3
<i>Santalum acuminatum</i>	1	0.5
<i>Scaevola virgata</i>	0.4	5
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Stylidium torticarpum</i> (3)		
<i>Thysanotus manglesianus</i>		0.1
<i>Trachymene pilosa</i>	0.1	0.1
<i>Trymalium angustifolium</i>	0.3	0.3
<i>Wahlenbergia gracilentia</i>	0.1	0.1

**PHOTOS**



Site Name: WE012  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 28/09/2011  
 GPS Location: GDA94 (Zone 50) 334135E 6741623N  
 Community: 7b  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Clay Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia barbinervis</i> subsp. <i>borealis</i>	0.3	0.1
<i>Acanthocarpus</i> sp. <i>Ajana</i> (C.A. Gardner 8596)	0.2	0.1
<i>Allocasuarina humilis</i>	0.5	5
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.1	0.1
<i>Babingtonia camphorosmae</i>	0.3	0.2
<i>Baeckea grandiflora</i>	0.4	0.5
<i>Banksia carlinoides</i>	0.4	2
<i>Banksia fraseri</i> var. <i>?fraseri</i>	0.2	0.5
<i>Banksia scabrella</i> (4)	0.5	2
<i>Banksia shuttleworthiana</i>	0.3	0.5
<i>Beaufortia elegans</i>	0.5	0.5
<i>Boronia cymosa</i>	0.2	0.3
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	0.2	0.1
<i>Calothamnus sanguineus</i>	0.5	7
<i>Cassytha ?pomiformis</i>		0.1
<i>Caustis dioica</i>	0.3	0.5
<i>Conostylis androstemma</i>	0.2	0.1
<i>Conostylis canteriata</i>	0.1	0.1



<i>Cryptandra myriantha</i>	0.2	0.2
<i>Cryptandra pungens</i>	0.2	0.1
<i>Dampiera lindleyi</i>	0.4	0.2
<i>Dampiera teres (broad-leaf variant)</i>	0.2	0.1
<i>Darwinia speciosa</i>	0.2	0.1
<i>Daviesia daphnoides</i>	0.3	0.2
<i>Daviesia pedunculata</i>	0.3	0.1
<i>Eucalyptus conveniens</i>	2.5	10
<i>Gastrolobium plicatum</i>	0.3	0.2
<i>Geleznovia verrucosa</i>	0.2	0.1
<i>Gompholobium knightianum</i>	0.1	0.1
<i>Hakea auriculata</i>	0.4	0.2
<i>Hakea incrassata</i>	0.4	2
<i>Hakea lissocarpha</i>	0.4	0.2
<i>Hakea stenocarpa</i>	0.4	5
<i>Halgania</i> sp. Wongan Hills (K.F. Kenneally 2393)	0.2	0.1
<i>Hibbertia hypericoides</i>	0.4	8
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	0.2
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Jacksonia restioides</i>	0.3	1
<i>Lepidobolus chaetocephalus</i>	0.3	0.2
<i>Leptomeria empetriformis</i>	0.3	0.2
<i>Leptospermum spinescens</i>	0.2	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.4	0.5
<i>Lysinema pentapetalum</i>	0.4	0.2
<i>Melaleuca aspalathoides</i>	0.3	8
<i>Melaleuca leuropoma</i>	0.4	0.5
<i>Mesomelaena pseudostygia</i>	0.2	0.5
<i>Monotaxis bracteata</i>	0.2	0.1
<i>Petrophile brevifolia</i>	0.2	0.1
<i>Petrophile scabriuscula</i>	0.2	0.1
<i>Petrophile shuttleworthiana</i>	1	4
<i>Pimelea sulphurea</i>	0.4	0.2
<i>Polianthion wichurae</i>	0.2	0.1
<i>Scaevola canescens</i>	0.2	0.2
<i>Schoenus armeria</i>	0.2	0.5
<i>Schoenus brevisetis</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stylidium crossocephalum</i>	0.2	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.3	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Stylidium rigidulum</i>	0.1	0.1
<i>Synaphea aephynsa</i> (3)	0.3	0.2

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<i>Thysanotus dichotomus</i>	0.3	0.2
<i>Tricoryne humilis</i>	0.1	0.1
<i>Xanthorrhoea ?brunonis</i>	1.5	5

**PHOTOS**

Site Name: WE013  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 29/09/2011  
 GPS Location: GDA94 (Zone 50) 334284E 6741724N  
 Community: 7b  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia barbinervis</i> subsp. <i>borealis</i>	0.2	0.1
<i>Allocasuarina humilis</i>	0.5	0.5
<i>Allocasuarina microstachya</i>	0.2	0.2
<i>Andersonia lehmanniana</i>	0.3	0.2
<i>Astroloma xerophyllum</i>	0.3	0.2
<i>Baeckea grandiflora</i>	0.3	1
<i>Banksia bipinnatifida</i> subsp. <i>multifida</i>	0.2	0.1
<i>Banksia carlinoides</i>	0.3	1
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.5
<i>Banksia scabrella</i> (4)	0.5	1
<i>Banksia shuttleworthiana</i>	0.3	0.5
<i>Beaufortia elegans</i>	0.3	0.2
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus sanguineus</i>	0.4	0.3
<i>Caustis dioica</i>	0.3	0.2
<i>Chordifex sinuosus</i>	0.2	0.3
<i>Comesperma acerosum</i>	0.3	0.1
<i>Conostylis canteriata</i>	0.1	0.2
<i>Conostylis hiemalis</i>	0.1	0.2
<i>Cryptandra myriantha</i>	0.2	0.1

<i>Dampiera lindleyi</i>	0.3	0.5
<i>Darwinia speciosa</i>	0.2	0.1
<i>Daviesia pedunculata</i>	0.2	0.2
<i>Desmocladius semiplanus</i>	0.1	0.1
<i>Drosera ?porrecta</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	0.5
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.4	5
<i>Eremaea ectadioclada</i>	0.2	0.2
<i>Gastrolobium plicatum</i>	0.3	0.5
<i>Goodenia coerulea</i>	0.1	0.1
<i>Hakea brownii</i>	0.5	0.5
<i>Hakea spathulata</i>	0.3	2
<i>Hakea stenocarpa</i>	0.3	0.5
<i>Hibbertia hypericoides</i>	0.5	7
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	3
<i>Hypocalymma hirsutum</i>	0.1	0.1
<i>Johnsonia pubescens</i> subsp. <i>pubescens</i>	0.1	0.1
<i>Lambertia multiflora</i> var. <i>multiflora</i>	0.5	5
<i>Lasiopetalum drummondii</i>	0.2	0.2
<i>Lepidosperma</i> aff. <i>scabrum</i>	0.3	0.1
<i>Leucopogon hispidus</i>	0.2	0.2
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.4	0.5
<i>Lysinema pentapetalum</i>	0.3	0.1
<i>Melaleuca leuropoma</i>	0.3	0.5
<i>Melaleuca</i> aff. <i>leuropoma</i>	0.5	0.2
<i>Melaleuca trichophylla</i>	0.3	5
<i>Mesomelaena pseudostygia</i>	0.3	1
<i>Mesomelaena tetragona</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Persoonia filiformis</i> (2)	0.2	0.1
<i>Petrophile brevifolia</i>	0.2	0.1
<i>Petrophile macrostachya</i>	0.4	0.2
<i>Pileanthus filifolius</i>	0.2	0.2
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus brevisetis</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Schoenus insolitus</i>	0.3	0.2
<i>Schoenus</i> sp. A3 Ciliate Sheaths (K.R. Newbey 9402)	0.2	0.2
<i>Scholtzia laxiflora</i>	0.4	2
<i>Stenanthemum humile</i>	0.1	0.1
<i>Stylidium crossocephalum</i>	0.1	0.2

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<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.2	0.1
<i>Stylidium rigidulum</i>	0.1	0.1
<i>Thysanotus dichotomus</i>	0.3	0.2
<i>Xanthorrhoea ?brunonis</i>	1	6
<i>Xanthosia huegelii</i>	0.2	0.1

**PHOTOS**



Site Name: WE014  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 29/09/2011  
 GPS Location: GDA94 (Zone 50) 334082E 6743780N  
 Community: 7a  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Clay Loam  
 Soil Colour: Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Allocasuarina microstachya</i>	0.3	0.5
<i>Astroloma glaucescens</i>	0.3	0.1
<i>Babingtonia camphorosmae</i>	0.2	0.5
<i>Banksia carlinoides</i>	0.4	0.2
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.3	0.2
<i>Boronia cymosa</i>	0.3	0.2
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Calothamnus longissimus</i>	0.5	3
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.4	0.5
<i>Calytrix flavescens</i>	0.2	0.3
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Chamaescilla versicolor</i>	0.1	0.1
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.1	0.1
<i>Conostylis androstemma</i>	0.2	0.5
<i>Dodonaea ericoides</i>	0.2	0.2
<i>Drosera erythrorhiza</i>	0.1	0.1
<i>Drosera menziesii</i>	0.1	0.1
<i>Elythranthera brunonis</i>	0.2	0.1
<i>Gastrolobium plicatum</i>	0.2	0.2
<i>Glischrocaryon aureum</i>	0.5	1

<i>Goodenia trichophylla</i>	0.1	0.1
<i>Hakea incrassata</i>	0.3	0.5
<i>Hakea lissocarpha</i>	0.5	3
<i>Hakea spathulata</i>	0.4	3
<i>Hibbertia hypericoides</i>	0.3	0.5
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	0.2
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Jacksonia restioides</i>	0.3	0.5
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.2
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	0.3	0.3
<i>Lepidosperma tenue</i>	0.4	0.2
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.3	0.2
<i>Levenhookia pusilla</i>	0.1	0.1
<i>Melaleuca tinkeri</i>	0.4	40
<i>Melaleuca trichophylla</i>	0.3	5
<i>Mirbelia floribunda</i>	0.2	0.2
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Petrophile chrysantha</i>	0.4	3
<i>Podotheca gnaphalioides</i>	0.1	0.1
<i>Poranthera microphylla</i>	0.1	0.1
<i>Pterochaeta paniculata</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Schoenus unispiculatus</i>	0.2	0.1
<i>Stenanthemum intricatum</i>	0.2	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.1	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Stylidium emarginatum</i>	0.1	0.1
<i>Stylidium petiolare</i>	0.1	0.1
<i>Velleia trinervis</i>	0.2	0.1

**PHOTOS**



Site Name: WE015  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 29/09/2011  
 GPS Location: GDA94 (Zone 50) 334250E 6743863N  
 Community: 9  
 Landform Type: Break-away (other)  
 Slope Class: Steep (23 degrees)  
 Aspect: W  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: Laterite, 10-20% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.3	0.5
<i>Boronia cymosa</i>	0.3	0.1
<i>Borya sphaerocephala</i>	0.1	0.2
<i>Calytrix flavescens</i>	0.2	0.2
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conostylis androstemma</i>	0.3	0.5
<i>Cryptandra pungens</i>	0.4	0.2
<i>Dampiera alata</i>	0.3	0.3
<i>Dampiera lindleyi</i>	0.3	0.5
<i>Dodonaea ericoides</i>	0.2	0.2
<i>Elythranthera brunonis</i>	0.1	0.1
<i>Gastrolobium plicatum</i>	1	3
<i>Glischrocaryon aureum</i>	0.5	1
<i>Hakea lissocarpha</i>	0.3	0.3
<i>Hakea prostrata</i>		
<i>Hibbertia hypericoides</i>	0.3	0.1
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	0.5
<i>Hypocalymma hirsutum</i>	0.2	0.1

<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	0.3	0.5
<i>Lepidosperma tenue</i>	0.3	0.2
<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)	0.3	0.5
<i>Lissanthe powelliae</i>	0.5	0.5
<i>Marianthus bicolor</i>	0.5	0.1
<i>Melaleuca concreta</i>	1	2
<i>Melaleuca marginata</i>	1	5
<i>Melaleuca tinkerii</i>	0.4	70
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Petrophile chrysantha</i>	1	1
<i>Schoenus clandestinus</i>	0.1	0.5
<i>Stylidium drummondianum</i> (3)	0.1	0.5
<i>Stylidium torticarpum</i> (3)	0.1	0.2

**PHOTOS**



Site Name: WE016  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 29/09/2011  
 GPS Location: GDA94 (Zone 50) 335278E 6744815N  
 Community: 10  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Sand  
 Soil Colour: Yellow  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.1	0.1
<i>Astroloma serratifolium</i>	0.3	0.1
<i>Banksia attenuata</i>	1	2
<i>Banksia shuttleworthiana</i>	0.3	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.5	1
<i>Calytrix sapphirina</i>	0.3	0.1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.5	2
<i>Conostephium preissii</i>	0.3	0.2
<i>Conostylis canteriata</i>	0.2	0.1
<i>Cryptandra myriantha</i>	0.1	0.1
<i>Dampiera oligophylla</i>	0.3	0.2
<i>Dampiera spicigera</i>	0.3	0.2
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.5	3
<i>Daviesia nudiflora</i>	0.4	3
<i>Drosera macrantha</i>	0.1	0.1
<i>Drosera ?porrecta</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	10
<i>Eremaea violacea</i> subsp. <i>violacea</i>	0.4	0.5
<i>Grevillea bififormis</i> subsp. <i>bififormis</i>	1.2	0.5

<i>Hakea circumalata</i>	0.4	1
<i>Hakea polyanthema</i>	0.5	2
<i>Hibbertia hypericoides</i>	0.2	0.2
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	0.2
<i>Isopogon tridens</i>	0.5	2
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.5	0.5
<i>Lepidosperma brunonianum</i> sens. lat.	0.3	0.2
<i>Leptospermum oligandrum</i>	0.5	1
<i>Leptospermum spinescens</i>	0.3	0.1
<i>Levenhookia pusilla</i>	0.1	0.1
<i>Levenhookia stipitata</i>	0.1	0.1
<i>Logania spermacocea</i>	0.2	0.3
<i>Melaleuca leuropoma</i>	0.5	10
<i>Mesomelaena pseudostygia</i>	0.4	5
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)		
<i>Monotaxis bracteata</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Persoonia filiformis</i> (2)	0.2	0.2
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Petrophile macrostachya</i>	0.4	0.5
<i>Pileanthus filifolius</i>	0.3	0.5
<i>Pimelea angustifolia</i>	0.4	0.1
<i>Platysace juncea</i> sens. lat.	0.1	0.1
<i>Pterochaeta paniculata</i>	0.1	0.1
<i>Scaevola canescens</i>	0.1	0.3
<i>Schoenus brevisetis</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
? <i>Schoenus</i> sp.	0.1	0.1
<i>Scholtzia laxiflora</i>	0.5	5
<i>Stenanthemum intricatum</i>	0.1	0.1
<i>Stylidium adpressum</i>	0.1	0.5
<i>Stylidium crossocephalum</i>	0.1	0.1
<i>Stylidium rigidulum</i>	0.1	0.1
<i>Verticordia grandis</i>	0.3	0.2
<i>Xylomelum angustifolium</i>	4	10

**PHOTOS**



Site Name: WE017  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 29/09/2011  
 GPS Location: GDA94 (Zone 50) 335209E 6743589N  
 Community: 7b  
 Landform Type: Crest  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia fagonioides</i>	0.2	0.2
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.3	0.2
<i>Allocasuarina humilis</i>	0.4	0.5
<i>Andersonia lehmanniana</i>	0.2	0.2
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.2	0.1
<i>Babingtonia camphorosmae</i>	0.3	0.2
<i>Banksia bipinnatifida</i> subsp. <i>multifida</i>	0.1	0.2
<i>Banksia carlinoides</i>	0.4	5
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.2
<i>Banksia scabrella</i> (4)	0.5	4
<i>Banksia shuttleworthiana</i>	0.3	0.5
<i>Beaufortia elegans</i>	0.4	0.5
<i>Calothamnus sanguineus</i>	0.5	2
<i>Calytrix flavescens</i>	0.3	0.3
<i>Cassytha glabella</i> forma <i>bicallosa</i>	0.1	0.1
<i>Caustis dioica</i>	0.2	0.3
<i>Comesperma calymega</i>	0.1	0.1
<i>Conostylis canteriata</i>	0.1	0.2
<i>Cristonia biloba</i>	0.3	0.1
<i>Darwinia speciosa</i>	0.2	0.1
<i>Daviesia daphnoides</i>	0.3	0.2
<i>Daviesia pedunculata</i>	0.4	0.2

<i>Desmocladius lateriticus</i>	0.2	0.2
<i>Desmocladius parthenicus</i>	0.2	0.1
<i>Desmocladius semiplanus</i>	0.1	0.1
<i>Diplolaena eneabbensis</i>	0.3	0.2
<i>Drosera erythrorhiza</i>	0.1	0.1
<i>Drosera ?porrecta</i>	0.1	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.4	3
<i>Eremaea ectadioclada</i>	0.3	0.2
<i>Gastrolobium plicatum</i>	0.3	0.3
<i>Goodenia coerulea</i>	0.1	0.1
<i>Hakea incrassata</i>	0.3	0.5
<i>Hakea lissocarpha</i>	0.3	0.2
<i>Hakea polyanthema</i>	0.5	5
<i>Hakea trifurcata</i>	0.4	0.2
<i>Hemiandra rubriflora</i>	0.1	0.1
<i>Hibbertia hypericoides</i>	0.3	8
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.5	5
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Lambertia multiflora</i> var. <i>multiflora</i>	0.4	1
<i>Lasiopetalum</i> sp. Watheroo (K. Shepherd & C. Wilkins KS 220)	0.2	0.2
<i>Leptospermum spinescens</i>	0.3	0.2
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.4	0.3
<i>Levenhookia pusilla</i>	0.1	0.1
<i>Melaleuca aspalathoides</i>	0.3	0.5
<i>Melaleuca</i> aff. <i>leuropoma</i>	0.75	20
<i>Melaleuca leuropoma</i>	0.3	5
<i>Mesomelaena pseudostygia</i>	0.2	0.1
<i>Monotaxis bracteata</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.2
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Petrophile macrostachya</i>	0.3	0.5
<i>Pileanthus filifolius</i>	0.2	0.2
<i>Schoenus brevisetis</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Scholtzia laxiflora</i>	0.3	0.2
<i>Stylidium adpressum</i>	0.1	0.1
<i>Stylidium crossocephalum</i>	0.2	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.2	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Stylidium rigidulum</i>	0.1	0.1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.2	0.1



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<i>Verticordia laciniata</i>	0.5	0.5
<i>Verticordia nobilis</i>	0.3	0.1
<i>Verticordia pennigera</i>	0.2	0.2

**PHOTOS**

Site Name: WE018  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 30/09/2011  
 GPS Location: GDA94 (Zone 50) 334879E 6741786N  
 Community: 13a  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia pulchella</i>	1	0.5
<i>Allocasuarina humilis</i>	0.5	3
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.2	0.5
<i>Astroloma xerophyllum</i>	0.3	0.2
<i>Austrostipa macalpinei</i>	0.1	0.1
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.3
<i>Banksia scabrella</i> (4)	0.5	2
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	0.2	0.1
<i>Calothamnus sanguineus</i>	1.2	5
<i>Calytrix fraseri</i>	0.3	0.2
<i>Calytrix sapphirina</i>	0.3	0.5
<i>Cassytha</i> ? <i>pomiformis</i>		0.2
<i>Caustis dioica</i>	0.3	0.2
<i>Chordifex sinuosus</i>	0.2	0.1
<i>Conospermum boreale</i> subsp. ? <i>ascendens</i>	0.4	0.2
<i>Conostylis canteriata</i>	0.2	0.3
<i>Conostylis hiemalis</i>	0.2	0.1
<i>Daviesia nudiflora</i>	0.4	0.5
<i>Desmocladius parthenicus</i>	0.1	0.1
<i>Desmocladius semiplanus</i>	0.1	0.2

<i>Drosera ?porrecta</i>	0.1	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	1	8
<i>Eucalyptus todtiana</i>	5	5
<i>Gompholobium tomentosum</i>	0.3	0.2
<i>Goodenia coerulea</i>	0.2	0.1
<i>Hakea polyanthema</i>	0.4	0.5
<i>Hakea prostrata</i>	1	0.5
<i>Hakea psilorrhyncha</i>	1	0.2
<i>Hakea trifurcata</i>	0.5	0.5
<i>Hibbertia hypericoides</i>	1	8
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	0.5
<i>Isotropis cuneifolia</i>	0.1	0.1
<i>Lambertia multiflora</i> var. <i>multiflora</i>	1.2	5
<i>Lasiopetalum drummondii</i>	0.3	0.5
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.5	2
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	0.2	0.1
<i>Levenhookia stipitata</i>	0.1	0.1
<i>Lomandra hastilis</i>	0.4	0.5
<i>Lysinema pentapetalum</i>	0.5	0.3
<i>Melaleuca leuropoma</i>	0.3	5
<i>Melaleuca</i> aff. <i>leuropoma</i>	0.4	0.3
<i>Mesomelaena pseudostygia</i>	0.3	0.2
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.2
<i>Petrophile scabriuscula</i>	0.5	0.2
<i>Pimelea leucantha</i>		
<i>Polianthion wichurae</i>	0.3	0.3
<i>Quoya verbascina</i>	0.4	0.2
<i>Schoenus brevisetis</i>	0.2	0.2
<i>Schoenus curvifolius</i>	0.2	0.1
<i>Scholtzia laxiflora</i>	1	10
<i>Stylidium crossocephalum</i>	0.2	0.2
<i>Stylidium purpureum</i> ms	0.2	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Stylidium rigidulum</i>	0.1	0.1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.2	0.1
<i>Trachymene pilosa</i>	0.1	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.3	0.2

**PHOTOS**



Site Name: WE019  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 30/09/2011  
 GPS Location: GDA94 (Zone 50) 335172E 6742250N  
 Community: 10  
 Landform Type: Flat  
 Slope Class: Level (0 degrees)  
 Aspect: N  
 Soil Type: Sand  
 Soil Colour: Yellow  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia auronitens</i>	0.2	0.1
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.2	0.1
<i>Allocasuarina humilis</i>	0.4	0.5
<i>Astroloma microdonta</i>	0.2	0.1
<i>Banksia attenuata</i>	0.5	4
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.5
<i>Banksia shuttleworthiana</i>	0.4	3
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.5	2
<i>Conostylis androstemma</i>	0.1	0.1
<i>Conostylis canteriata</i>	0.1	0.2
<i>Cryptandra spyridioides</i>	0.1	0.1
<i>Dampiera oligophylla</i>	0.2	0.1
<i>Dampiera teres</i> (broad-leaf variant)	0.2	0.1
<i>Darwinia speciosa</i>	0.2	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.5	6
<i>Daviesia nudiflora</i>	0.3	0.2
<i>Daviesia pedunculata</i>	0.3	0.2
<i>Drosera macrantha</i>		0.1



<i>Ecdeiocolea monostachya</i>	0.5	8
<i>Eremaea violacea</i> subsp. <i>violacea</i>	0.3	0.5
<i>Goodenia coerulea</i>	0.2	0.1
<i>Hakea cygna</i> subsp. <i>cygna</i>	0.4	0.5
<i>Hakea polyanthema</i>	0.5	0.5
<i>Hibbertia crassifolia</i>	0.3	0.1
<i>Hibbertia hypericoides</i>	0.3	0.2
<i>Isopogon tridens</i>	0.3	0.2
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	1
<i>Leptospermum oligandrum</i>	0.6	0.2
<i>Leptospermum spinescens</i>	0.4	0.2
<i>Leucopogon hispidus</i>	0.2	0.5
<i>Levenhookia pusilla</i>	0.1	0.1
<i>Logania spermacocea</i>	0.2	0.1
<i>Melaleuca leuropoma</i>	0.4	5
<i>Mesomelaena pseudostygia</i>	0.5	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.2	2
<i>Monotaxis bracteata</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Persoonia filiformis</i> (2)	0.2	0.2
<i>Petrophile macrostachya</i>	0.3	0.5
<i>Petrophile megalostegia</i>	0.3	0.2
<i>Pileanthus filifolius</i>	0.3	0.1
<i>Pimelea angustifolia</i>	0.3	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stackhousia dielsii</i>	0.3	0.3
<i>Stylidium adpressum</i>	0.1	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.2	0.1
<i>Stylidium maitlandianum</i>	0.1	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Thysanotus patersonii</i>		0.1
<i>Tricoryne humilis</i>	0.1	0.1
<i>Verticordia grandis</i>	0.5	0.3
<i>Xylomelum angustifolium</i>	3	5

**PHOTOS**



Site Name: WE020  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 30/09/2011  
 GPS Location: GDA94 (Zone 50) 338203E 6744279N  
 Community: 1b  
 Landform Type: Upper Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: N  
 Soil Type: Clay  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 2 - Excellent  
 Disturbance: Exotic Weeds  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia lasiocarpa</i> var. ? <i>bracteolata</i>	0.3	0.2
<i>Acanthocarpus canaliculatus</i>	0.2	0.1
* <i>Arctotheca calendula</i>	0.2	0.3
<i>Astroloma pedicellatum</i> ms	0.3	0.5
<i>Austrostipa</i> sp. Marchagee (B.R. Maslin 1407)	0.2	0.3
<i>Brachyscome perpusilla</i>	0.1	0.1
<i>Calandrinia calyptrata</i>	0.1	0.1
<i>Calandrinia</i> sp. Blackberry (D.M. Porter 171)	0.3	2
<i>Calotis hispidula</i>	0.1	0.3
<i>Crassula colorata</i> var. <i>acuminata</i>	0.1	0.1
<i>Daucus glochidiatus</i>	0.2	0.1
<i>Desmocladus asper</i>	0.2	0.3
<i>Dianella revoluta</i>	0.2	0.1
<i>Diplopeltis huegelii</i> subsp. <i>lehmannii</i>	0.2	0.1
<i>Dodonaea divaricata</i>	0.5	3
<i>Enchylaena tomentosa</i>	0.2	0.1
<i>Eucalyptus accedens</i>	12	40
<i>Gastrolobium plicatum</i>	1	8
<i>Glischrocaryon aureum</i>	0.3	0.3
<i>Goodenia berardiana</i>	0.2	10

<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.2	0.2
* <i>Hypochaeris glabra</i>	0.2	0.3
<i>Isotoma hypocrateriformis</i>	0.1	0.1
<i>Lagenophora huegelii</i>	0.1	0.1
* <i>Lysimachia arvensis</i>	0.1	0.1
<i>Orthrosanthus laxus</i> var. <i>laxus</i>	0.2	0.1
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.2	0.2
<i>Plantago debilis</i>	0.1	0.3
<i>Podolepis lessonii</i>	0.2	3
<i>Ptilotus manglesii</i>	0.1	0.2
<i>Rhagodia preissii</i> subsp. <i>preissii</i>	0.4	0.2
<i>Rhodanthe laevis</i>	0.1	0.1
<i>Rhodanthe manglesii</i>	0.2	5
<i>Rytidosperma setaceum</i>	0.1	0.1
<i>Stylidium torticarpum</i> (3)	0.1	0.1
<i>Trachymene cyanopetala</i>	0.2	10
<i>Trachymene pilosa</i>	0.1	0.1
<i>Velleia rosea</i>	0.1	0.1
<i>Velleia trinervis</i>	0.2	0.1
<i>Wahlenbergia gracilentia</i>	0.4	0.2

**PHOTOS**

Site Name: WE021  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 24/10/2011  
 GPS Location: GDA94 (Zone 50) 333578E 6745279N  
 Community: 13a  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: E  
 Soil Type: Sand over laterite (other)  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 6-20mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: >8 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia barbinervis</i> subsp. <i>borealis</i>	0.4	0.1
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	1	0.1
<i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i>	1	1
<i>Allocasuarina humilis</i>	0.3	0.1
<i>Andersonia lehmanniana</i>	0.3	0.1
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.1	0.1
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.3	0.1
<i>Banksia leptophylla</i> var. <i>melletica</i>	0.8	35
<i>Banksia sessilis</i> var. <i>flabellifolia</i>	1.4	8
<i>Beaufortia elegans</i>	0.6	0.5
<i>Calothamnus sanguineus</i>	0.6	0.1
<i>Calytrix sapphirina</i>	0.4	0.1
<i>Cassytha flava</i>		0.1
<i>Conostylis canteriata</i>	0.2	0.1
<i>Desmocladus asper</i>	0.3	0.1
<i>Desmocladus parthenicus</i>	0.1	0.1
<i>Desmocladus semiplanus</i>	0.1	0.1
<i>Eremaea beaufortoides</i> var. <i>microphylla</i>	0.8	0.1
<i>Eremaea ectadioclada</i>	0.6	0.1



<i>Hibbertia crassifolia</i>	0.6	0.1
<i>Hibbertia hypericoides</i>	0.4	0.2
<i>Hibbertia subvaginata</i>	0.4	0.1
<i>Isotropis cuneifolia</i>	0.2	0.1
<i>Lambertia multiflora</i> var. <i>multiflora</i>	1	0.1
<i>Lasiopetalum drummondii</i>	0.3	0.1
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Leucopogon hispidus</i>	0.3	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.8	0.1
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	0.6	1
<i>Lyginia imberbis</i>	0.3	0.1
<i>Lysinema pentapetalum</i>	0.3	0.1
<i>Melaleuca leuropoma</i>	0.4	1
<i>Melaleuca</i> aff. <i>leuropoma</i>	1	3
<i>Mesomelaena pseudostygia</i>	0.3	0.1
<i>Nuytsia floribunda</i>	4	0.2
<i>Patersonia occidentalis</i>	0.3	0.1
<i>Pileanthus filifolius</i>	0.4	0.1
<i>Quoya verbascina</i>	0.6	0.1
<i>Schoenus armeria</i>	0.2	0.1
<i>Schoenus curvifolius</i>	0.3	0.1
<i>Stenanthemum humile</i>	0.1	0.1
<i>Stylidium crossocephalum</i>	0.1	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Thysanotus thyrsoideus</i>	0.4	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.8	4
<i>Xanthosia huegelii</i>	0.1	0.1

**PHOTOS**



Site Name: WE022  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 24/10/2011  
 GPS Location: GDA94 (Zone 50) 334088E 6745002N  
 Community: 8  
 Landform Type: Ridge  
 Slope Class: Level (0 degrees)  
 Soil Type: Silty clay (other)  
 Soil Colour: Brown  
 Rock Outcrop: Laterite, 10-20% bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia acuaria</i>	0.4	0.1
<i>Allocasuarina campestris</i>	0.6	0.1
<i>Allocasuarina humilis</i>	0.3	3
<i>Amphipogon turbinatus</i>	0.3	0.1
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.6	2
<i>Banksia shuttleworthiana</i>	0.4	1
<i>Boronia cymosa</i>	0.3	0.1
<i>Burchardia congesta</i>	0.4	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.2	0.1
<i>Conostylis androstemma</i>	0.2	0.1
<i>Cryptandra myriantha</i>	0.4	0.1
<i>Dampiera lindleyi</i>	0.4	0.1
<i>Daviesia oxyclada</i>	0.4	0.1
<i>Daviesia pedunculata</i>	0.3	0.4
<i>Daviesia triflora</i>	0.4	0.1
<i>Ecdeiocolea monostachya</i>	0.6	10
<i>Gastrolobium plicatum</i>	0.5	0.3
<i>Goodenia coerulea</i>	0.4	0.1
<i>Goodenia hassallii</i>	0.3	0.1
<i>Goodenia</i> aff. <i>hassallii</i>	0.4	0.1
<i>Hakea auriculata</i>	0.6	3

<i>Hakea incrassata</i>	0.5	3
<i>Hakea lissocarpha</i>	0.6	8
<i>Hakea stenocarpa</i>	0.5	0.2
<i>Hakea trifurcata</i>	0.6	2
<i>Hibbertia hypericoides</i>	0.4	0.1
<i>Isopogon divergens</i>	0.4	3
<i>Jacksonia restioides</i>	0.2	0.1
<i>Lepidosperma tenue</i>	0.3	0.1
<i>Melaleuca aspalathoides</i>	0.4	15
<i>Melaleuca concreta</i>		
<i>Melaleuca radula</i>	0.8	0.1
<i>Melaleuca tinkerii</i>	0.4	1
<i>Mesomelaena pseudostygia</i>	0.3	0.1
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.3	0.1
<i>Patersonia graminea</i>	0.3	0.1
<i>Petrophile shuttleworthiana</i>	0.5	4
<i>Schoenus armeria</i>	0.3	0.1
<i>Schoenus brevisetis</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Waitzia suaveolens</i> var. <i>suaveolens</i>	0.1	0.1

**PHOTOS**

Site Name: WE023  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/10/2011  
 GPS Location: GDA94 (Zone 50) 331909E 6741361N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Sand  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia auronitens</i>	0.3	0.1
<i>Allocasuarina humilis</i>	0.5	0.1
<i>Allocasuarina microstachya</i>	0.4	0.5
<i>Amphipogon turbinatus</i>	0.2	0.1
<i>Astroloma glaucescens</i>	0.4	0.1
<i>Austrostipa macalpinei</i>	0.2	0.1
<i>Babingtonia camphorosmae</i>	0.4	0.1
<i>Banksia shuttleworthiana</i>	0.3	0.5
<i>Boronia cymosa</i>	0.3	0.1
<i>Burchardia congesta</i>	0.4	0.1
<i>Cassytha flava</i>		0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.3	0.2
<i>Conostylis canteriata</i>	0.1	0.1
<i>Cristonia biloba</i>	0.3	0.1
<i>Dampiera spicigera</i>	0.3	0.1
<i>Darwinia speciosa</i>	0.3	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.3	0.1
<i>Daviesia nudiflora</i>	0.4	0.1
<i>Drosera ?menziesii</i>	0.3	0.1
<i>Ecdeiocolea monostachya</i>	0.4	16
<i>Gastrolobium plicatum</i>	0.4	0.1



<i>Goodenia coerulea</i>	0.3	0.1
<i>Hakea auriculata</i>	0.6	0.1
<i>Hakea circumalata</i>	0.3	0.5
<i>Hakea incrassata</i>	0.4	0.1
<i>Hakea polyanthema</i>	0.6	0.1
<i>Hibbertia hypericoides</i>	0.3	2
* <i>Hypochaeris glabra</i>	0.2	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.1
<i>Leptospermum oligandrum</i>	0.4	0.1
<i>Leptospermum spinescens</i>	0.4	0.1
<i>Leucopogon hispidus</i>	0.3	0.2
<i>Levenhookia stipitata</i>	0.1	0.1
<i>Levenhookia ?stipitata</i>	0.1	0.1
<i>Melaleuca aspalathoides</i>	0.4	15
<i>Melaleuca leuropoma</i>	0.3	2
<i>Mesomelaena pseudostygia</i>	0.3	3
<i>Monotaxis bracteata</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Persoonia filiformis</i> (2)	0.3	0.1
<i>Pileanthus filifolius</i>	0.3	1
<i>Pimelea angustifolia</i>	0.3	0.1
<i>Scaevola canescens</i>	0.3	0.1
<i>Schoenus brevisetis</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.5	2
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.3	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.3	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Thysanotus dichotomus</i>	0.3	0.1
<i>Verticordia pennigera</i>	0.3	0.1

**PHOTOS**



Site Name: WE024  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/10/2011  
 GPS Location: GDA94 (Zone 50) 331705E 6741485N  
 Community: 14  
 Landform Type: Drainage Line  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Sand  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia dilatata</i>	0.3	0.1
* <i>Arctotheca calendula</i>	0.05	0.1
<i>Austrostipa macalpinei</i>	0.2	0.1
<i>Borya sphaerocephala</i>	0.05	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.6	1
<i>Calytrix depressa</i>	0.4	0.2
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.3	0.1
<i>Crassula colorata</i> var. <i>acuminata</i>	0.05	0.1
<i>Dampiera teres</i>	0.6	1
<i>Desmocladus asper</i>	0.3	0.1
<i>Gnephosis tenuissima</i>	0.05	0.1
<i>Haemodorum brevisepalum</i>	0.3	0.1
<i>Hakea circumalata</i>	0.4	1
<i>Hakea lissocarpha</i>	0.4	1
* <i>Hypochaeris glabra</i>	0.1	0.1
<i>Isotoma hypocrateriformis</i>	0.1	0.1
<i>Jacksonia angulata</i>	0.4	0.1
<i>Jacksonia hakeoides</i>	0.4	2
<i>Lepidosperma tenue</i>	0.3	0.2
<i>Levenhookia stipitata</i>	0.05	0.1
<i>Lomandra ?micrantha</i> subsp. <i>micrantha</i>	0.3	0.1
<i>Melaleuca concreta</i>	0.6	30

<i>Melaleuca leuropoma</i>	0.3	1
<i>Melaleuca radula</i>	0.6	1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Podotheca gnaphalioides</i>	0.1	0.1
<i>Schoenus badius</i> (2)	0.05	0.1
<i>Siloxerus filifolius</i>	0.05	0.1
<i>Stylidium dichotomum</i>	0.1	0.1
<i>Trachymene pilosa</i>	0.05	0.1
* <i>Vulpia myuros</i>	0.1	0.1

**PHOTOS**

Site Name: WE025  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/10/2011  
 GPS Location: GDA94 (Zone 50) 332100E 6742266N  
 Community: 10  
 Landform Type: Crest  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: W  
 Soil Type: Sand  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia auronitens</i>	0.3	0.2
<i>Actinotus leucocephalus</i>	0.2	0.1
<i>Allocasuarina microstachya</i>	0.4	0.2
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.4	0.1
<i>Astroloma glaucescens</i>	0.3	0.1
<i>Astroloma microdonta</i>	0.3	0.1
<i>Austrostipa macalpinei</i>	0.2	0.1
<i>Babingtonia camphorosmae</i>	0.5	0.1
<i>Baeckea grandiflora</i>	0.4	0.1
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.3	0.1
<i>Banksia shuttleworthiana</i>	0.4	0.1
<i>Beaufortia elegans</i>	0.4	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.8	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Caustis dioica</i>	0.4	0.1
<i>Conostylis canteriata</i>	0.3	0.1
<i>Dampiera spicigera</i>	0.3	0.1
<i>Darwinia speciosa</i>	0.2	0.1
<i>Daviesia nudiflora</i>	0.5	0.1
<i>Ecdeiocolea monostachya</i>	0.5	5
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.6	1
<i>Geleznowia verrucosa</i>	0.2	0.1



<i>Goodenia coerulea</i>	0.4	0.1
<i>Hakea circumalata</i>	0.6	0.1
<i>Hakea lissocarpha</i>	0.6	0.1
<i>Hibbertia crassifolia</i>	0.4	0.1
<i>Hibbertia hypericoides</i>	0.5	3
<i>Hypocalymma xanthopetalum</i>	0.3	0.1
<i>Jacksonia nutans</i>	0.4	0.2
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.05	0.1
<i>Leptomeria empetriformis</i>	0.3	0.1
<i>Leptospermum oligandrum</i>	0.5	0.5
<i>Leptospermum spinescens</i>	0.4	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.5	0.1
<i>Levenhookia stipitata</i>	0.05	0.1
<i>Melaleuca aspalathoides</i>	0.3	0.3
<i>Melaleuca leuropoma</i>	0.4	10
? <i>Mesomelaena preissi</i>	0.3	0.1
<i>Mesomelaena pseudostygia</i>	0.4	1
<i>Monotaxis bracteata</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.2
<i>Petrophile macrostachya</i>	0.5	0.1
<i>Petrophile megalostegia</i>	0.3	0.1
<i>Pileanthus filifolius</i>	0.4	1
<i>Pimelea angustifolia</i>	0.2	0.1
<i>Pterochaeta paniculata</i>	0.05	0.1
<i>Scaevola canescens</i>	0.3	0.1
<i>Schoenus badius</i> (2)	0.05	0.1
<i>Schoenus brevisetis</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.6	8
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.4	0.1
<i>Stylidium crossocephalum</i>	0.1	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.3	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Stylidium rigidulum</i>	0.1	0.1
<i>Thysanotus dichotomus</i>	0.2	0.1
<i>Thysanotus</i> ? <i>tenellus</i>	0.2	0.1

**PHOTOS**



Site Name: WE026  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/10/2011  
 GPS Location: GDA94 (Zone 50) 332369E 6742776N  
 Community: 7a  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Allocasuarina microstachya</i>	0.3	1
<i>Austrostipa macalpinei</i>	0.2	0.1
<i>Babingtonia camphorosmae</i>	0.4	0.1
<i>Boronia cymosa</i>	0.3	0.1
<i>Borya sphaerocephala</i>	0.05	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus sanguineus</i>	0.8	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conostylis androstemma</i>	0.2	0.1
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Cryptandra myriantha</i>	0.3	0.1
<i>Dampiera lavandulacea</i>	0.2	0.1
<i>Drosera eneabba</i>	0.05	0.1
<i>Ecdeiocola monostachya</i>	0.5	5
<i>Gastrolobium plicatum</i>	0.4	0.1
<i>Glischrocaryon aureum</i>	0.4	0.1
<i>Goodenia trichophylla</i>	0.3	0.1
<i>Hakea incrassata</i>	0.4	0.1
<i>Hakea spathulata</i>	0.4	0.1
<i>Hibbertia crassifolia</i>	0.4	0.1
<i>Hibbertia hypericoides</i>	0.4	3
<i>Hypocalymma hirsutum</i>	0.2	0.1

<i>Isotoma hypocrateriformis</i>	0.2	0.1
<i>Laxmannia omnifertilis</i>	0.3	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.1
<i>Lepidosperma tenue</i>	0.3	0.1
<i>Levenhookia stipitata</i>	0.05	0.1
<i>Melaleuca aspalathoides</i>	0.4	25
? <i>Mesomelaena preissi</i>	0.3	0.1
<i>Mesomelaena pseudostygia</i>	0.4	1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.1
<i>Pterochaeta paniculata</i>	0.05	0.1
<i>Schoenus badius</i> (2)	0.05	0.1
<i>Schoenus brevisetis</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.4	1
<i>Stylidium androsaceum</i>	0.05	0.1
<i>Stylidium dichotomum</i>	0.1	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.3	0.1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.2	0.1
<i>Thryptomene ?racemulosa</i>	0.3	0.1
<i>Thysanotus dichotomus</i>	0.3	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.3	0.1
<i>Verticordia laciniata</i>	0.6	0.2
<i>Verticordia pennigera</i>	0.3	0.1

**PHOTOS**





Site Name: WE027  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/10/2011  
 GPS Location: GDA94 (Zone 50) 333470E 6745582N  
 Community: 10  
 Landform Type: Upper Slope  
 Slope Class: Level (0 degrees)  
 Soil Type: Sand  
 Soil Colour: Yellow/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: >7 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuaria</i>	0.4	0.1
<i>Acacia auronitens</i>	0.3	0.1
<i>Astroloma glaucescens</i>	0.4	0.1
<i>Astroloma microdonta</i>	0.3	0.1
<i>Baeckea grandiflora</i>	0.4	0.1
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.4	1
<i>Banksia scabrella</i> (4)	0.5	1
<i>Banksia shuttleworthiana</i>	0.5	1
<i>Beaufortia elegans</i>	0.8	1
<i>Boronia cymosa</i>	0.4	0.1
<i>Cassytha flava</i>		0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.6	0.1
<i>Cryptandra myriantha</i>	0.3	0.1
<i>Dampiera oligophylla</i>	0.4	0.1
<i>Dampiera spicigera</i>	0.4	0.1
<i>Daviesia daphnoides</i>	0.8	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.6	1
<i>Daviesia pedunculata</i>	0.3	0.2
<i>Drosera ?leucoblata</i>	0.5	0.1
<i>Ecdeiocolea monostachya</i>	0.7	4
<i>Eremaea violacea</i> subsp. <i>violacea</i>	0.4	0.1
<i>Gastrolobium plicatum</i>	0.5	0.1

<i>Geleznovia verrucosa</i>	0.3	0.1
<i>Hakea circumalata</i>	0.7	0.2
<i>Hakea cygna</i> subsp. <i>cygna</i>	0.8	0.1
<i>Hakea polyanthema</i>	0.6	1
<i>Hibbertia crassifolia</i>	0.5	1
<i>Hibbertia hypericoides</i>	0.4	3
<i>Hypocalymma hirsutum</i>	0.4	0.1
<i>Isopogon tridens</i>	0.5	0.1
<i>Jacksonia hakeoides</i>	0.5	0.2
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.1
<i>Levenhookia stipitata</i>	0.05	0.1
<i>Melaleuca aspalathoides</i>	0.4	0.5
<i>Melaleuca leuropoma</i>	0.4	3
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.3	2
<i>Mesomelaena tetragona</i>	0.3	0.1
<i>Monotaxis bracteata</i>	0.3	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Patersonia graminea</i>	0.3	0.1
<i>Petrophile megalostegia</i>	0.3	0.1
<i>Pileanthus filifolius</i>	0.5	3
<i>Scaevola canescens</i>	0.3	0.1
? <i>Schoenus</i> sp.	0.05	0.1
<i>Scholtzia laxiflora</i>	0.5	1
<i>Stackhousia dielsii</i>	0.3	0.1
<i>Stenanthemum intricatum</i>	0.1	0.1
<i>Stylidium adpressum</i>	0.1	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.3	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.3	0.1
<i>Tricoryne humilis</i>	0.05	0.1
<i>Verticordia grandis</i>	0.6	0.1
<i>Verticordia laciniata</i>	0.6	0.1

**PHOTOS**



Site Name: WE028  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/10/2011  
 GPS Location: GDA94 (Zone 50) 333482E 6744752N  
 Community: 8  
 Landform Type: breakaway (other)  
 Slope Class: Very Steep (37 degrees)  
 Aspect: SW  
 Soil Type: Silty clay (other)  
 Soil Colour: Grey  
 Rock Outcrop: Laterite, 2-10% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	1	3
<i>Anthocercis genistoides</i>	0.6	0.3
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.5	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	0.2
<i>Conostylis androstemma</i>	0.2	0.1
<i>Dampiera lavandulacea</i>	0.3	0.4
<i>Dampiera lindleyi</i>	0.3	0.1
<i>Dianella revoluta</i>	0.5	0.1
<i>Dodonaea ericoides</i>	0.2	0.1
<i>Ecdeiocolea monostachya</i>	0.5	1
<i>Gastrolobium plicatum</i>	0.5	0.2
<i>Glischrocaryon aureum</i>	0.6	0.1
<i>Hakea auriculata</i>	0.6	0.1
<i>Hakea lissocarpha</i>	1	15
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.4	0.1
<i>Lepidosperma brunonianum</i> sens. lat.	0.3	0.1
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.3	0.1
<i>Lepidosperma tenue</i>	0.5	0.1

<i>Marianthus bicolor</i>	1	0.3
<i>Melaleuca concreta</i>	1	10
<i>Melaleuca radula</i>	1	5
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.1
<i>Petrophile chrysantha</i>	0.3	0.1
<i>Pterochaeta paniculata</i>	0.05	0.1
<i>Scaevola virgata</i>	0.1	0.1
<i>Tricoryne elatior</i>	0.4	0.1
<i>Trymalium angustifolium</i>	0.4	0.1

**PHOTOS**



Site Name: WE029  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 333533E 6745909N  
 Community: 3  
 Landform Type: Drainage Line  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Clay  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 7 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia ericksoniae</i>	0.4	0.1
<i>Dampiera lindleyi</i>	0.4	0.1
<i>Eucalyptus arachnaea</i> subsp. <i>arachnaea</i>		
<i>Gastrolobium bennettsianum</i>	0.8	0.1
<i>Guichenotia angustifolia</i>	0.5	0.1
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	0.4	0.1
<i>Marianthus ringens</i>		0.1
<i>Melaleuca concreta</i>	1.2	40
<i>Melaleuca marginata</i>	0.4	5
<i>Melaleuca radula</i>	1	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1

**PHOTOS**



Site Name: WE030  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 333696E 6745833N  
 Community: 7b  
 Landform Type: Ridge  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: E  
 Soil Type: Sandy Loam  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: > 7 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuarina</i>	0.4	0.1
<i>Acacia dilatata</i>	0.3	0.1
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.3	0.1
<i>Allocasuarina campestris</i>	1.2	2
<i>Austrostipa macalpinei</i>	0.3	0.1
<i>Babingtonia camphorosmae</i>	0.3	0.1
<i>Baeckea grandiflora</i>	0.4	0.1
<i>Banksia bipinnatifida</i> subsp. <i>multifida</i>	0.3	0.1
<i>Banksia carlinoides</i>	1.2	1
<i>Banksia shuttleworthiana</i>	0.6	0.5
<i>Beaufortia elegans</i>	1	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus sanguineus</i>	0.5	0.1
<i>Calytrix flavescens</i>	0.4	0.1
<i>Cassytha flava</i>		0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Caustis dioica</i>	0.3	0.1
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.05	0.1
<i>Dampiera lindleyi</i>	0.3	0.2

<i>Dampiera spicigera</i>	0.3	0.1
<i>Daviesia daphnoides</i>	0.8	0.1
<i>Daviesia oxyclada</i>	0.5	0.1
<i>Ecdeiocolea monostachya</i>	0.7	15
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.8	0.1
<i>Gastrolobium plicatum</i>	1	0.2
<i>Goodenia coerulea</i>	0.2	0.1
<i>Hakea auriculata</i>	0.8	0.5
<i>Hakea incrassata</i>	0.6	0.2
<i>Hakea lissocarpha</i>	0.8	0.5
<i>Hakea stenocarpa</i>	0.5	1
<i>Hakea trifurcata</i>	1.2	10
<i>Hibbertia crassifolia</i>	0.4	0.1
<i>Hibbertia hypericoides</i>	0.6	0.1
<i>Jacksonia restioides</i>	0.3	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.1
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.3	0.1
<i>Melaleuca aspalathoides</i>	0.5	5
<i>Melaleuca radula</i>	1	0.1
<i>Mesomelaena pseudostygia</i>	0.4	0.1
<i>Patersonia graminea</i>	0.4	0.1
<i>Petrophile shuttleworthiana</i>	1	1
<i>Pterochaeta paniculata</i>	0.05	0.1
<i>Schoenus armeria</i>	0.2	0.1
? <i>Schoenus</i> sp.	0.05	0.1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.3	0.1
<i>Tricoryne humilis</i>	0.05	0.1
<i>Verticordia chrysantha</i>	0.6	0.1

**PHOTOS**





Site Name: WE031  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 334119E 6748240N  
 Community: 10  
 Landform Type: Sand dune (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Sand  
 Soil Colour: Brown over yellow (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 7 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	1.2	3
<i>Allocasuarina microstachya</i>	0.3	0.1
<i>Amphipogon turbinatus</i>	0.2	0.1
* <i>Arctotheca calendula</i>	0.1	0.1
<i>Astroloma microdonta</i>	0.3	0.1
<i>Baeckea grandiflora</i>	0.3	0.1
<i>Banksia attenuata</i>	1.2	2
<i>Banksia shuttleworthiana</i>	0.6	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calytrix strigosa</i>	0.3	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.5	0.1
<i>Dampiera oligophylla</i>	0.3	0.1
<i>Dampiera spicigera</i>	0.3	0.1
<i>Darwinia speciosa</i>	0.3	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.5	4
<i>Daviesia nudiflora</i>	0.5	0.1
<i>Drosera ?menziesii</i>	0.3	0.1
<i>Ecdeiocolea monostachya</i>	0.5	4
<i>Eremaea violacea</i> subsp. <i>violacea</i>	0.4	0.1
<i>Goodenia coerulea</i>	0.4	0.1
<i>Hakea cygna</i> subsp. <i>cygna</i>	1	0.4

<i>Hibbertia hypericoides</i>	0.5	1
<i>Hypocalymma hirsutum</i>	0.3	0.1
* <i>Hypochaeris glabra</i>	0.2	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.1
<i>Lepidosperma brunonianum</i> sens. lat.	0.3	0.1
<i>Leptospermum oligandrum</i>	0.6	0.2
<i>Leptospermum spinescens</i>	0.3	0.1
<i>Melaleuca leuropoma</i>	0.5	15
? <i>Mesomelaena preissi</i>	1	0.1
<i>Mesomelaena pseudostygia</i>	0.4	3
<i>Monotaxis bracteata</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.3	0.1
<i>Petrophile macrostachya</i>	0.4	0.1
<i>Pileanthus filifolius</i>	0.3	1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.5	8
<i>Stenanthemum intricatum</i>	0.2	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Thysanotus ?tenellus</i>	0.1	0.1
<i>Tricoryne humilis</i>	0.2	0.1
<i>Verticordia chrysanthella</i>	0.2	0.1
<i>Verticordia grandis</i>	1	0.1

**PHOTOS**

Site Name: WE032  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 334095E 6748049N  
 Community: 11  
 Landform Type: Sand dune (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NE  
 Soil Type: Sand  
 Soil Colour: Yellow  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 7 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.3	0.1
<i>Allocasuarina campestris</i>	1.4	65
<i>Amphipogon caricinus</i>	0.2	0.1
<i>Austrostipa macalpinei</i>	0.2	0.1
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.4	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Dampiera spicigera</i>	0.3	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.4	0.1
<i>Ecdeiocolea monostachya</i>	0.4	10
<i>Grevillea eriostachya</i>	1.4	0.1
<i>Hakea circumalata</i>	1	0.5
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.1
<i>Leucopogon hamulosus</i>	0.4	0.1
<i>Levenhookia stipitata</i>	0.05	0.1
<i>Mesomelaena pseudostygia</i>	0.3	0.1
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.4	0.5
<i>Patersonia graminea</i>	0.3	0.1
<i>Platysace juncea</i> sens. lat.	0.1	0.1
<i>Pterochaeta paniculata</i>		
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Tricoryne humilis</i>	0.3	0.1
<i>Verticordia grandis</i>	1	0.1

**PHOTOS**



Site Name: WE033  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 334052E 6747404N  
 Community: 7a  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: E  
 Soil Type: Brown sand over laterite  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 6-20mm  
 Vegetation Condition: 1 - Pristine  
 Fire: > 7 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia auronitens</i>	0.3	0.1
<i>Allocasuarina campestris</i>	1.5	38
<i>Allocasuarina microstachya</i>	0.3	0.1
<i>Astroloma glaucescens</i>	0.3	0.1
<i>Banksia carlinoides</i>	0.7	1
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.6	0.1
<i>Boronia cymosa</i>	0.4	0.1
<i>Burchardia congesta</i>	0.4	0.1
<i>Calothamnus longissimus</i>	0.5	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conostylis androstemma</i>	0.2	0.1
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.2	0.1
<i>Dampiera spicigera</i>	0.3	0.1
<i>Darwinia speciosa</i>	0.3	0.1
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.3	0.1
<i>Dodonaea ericoides</i>	0.2	0.1
<i>Ecdeiocolea monostachya</i>	0.6	4
<i>Goodenia coerulea</i>	0.3	0.1
<i>Hakea auriculata</i>	1	2
<i>Hakea circumalata</i>	1	1



<i>Hakea incrassata</i>	0.5	0.1
<i>Hakea lissocarpa</i>	0.6	0.1
<i>Hibbertia crassifolia</i>	0.4	0.1
<i>Hibbertia hypericoides</i>	0.4	0.1
<i>Hypocalymma hirsutum</i>	0.3	0.1
<i>Isopogon divergens</i>	0.6	0.2
<i>Jacksonia foliosa</i>	0.6	0.1
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.4	0.1
<i>Melaleuca aspalathoides</i>	0.4	1
<i>Mesomelaena pseudostygia</i>	0.3	0.1
<i>Micromyrtus rogeri</i> (1)	0.4	3
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.1
<i>Petrophile chrysantha</i>	0.6	0.1
<i>Petrophile megalostegia</i>	0.3	0.1
<i>Schoenus brevisetis</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
? <i>Schoenus</i> sp.	0.2	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.3	0.1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.2	0.1
<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>	0.3	0.1

**PHOTOS**

Site Name: WE034  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 333677E 6746827N  
 Community: 13b  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Sand  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 7 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.3	0.1
<i>Allocasuarina campestris</i>	1.2	20
<i>Amphipogon turbinatus</i>	0.3	0.1
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.1	0.1
<i>Astroloma pedicellatum</i> ms	0.6	0.1
<i>Austrostipa macalpinei</i>	0.2	0.1
<i>Babingtonia camphorosmae</i>	0.5	0.1
<i>Baeckea grandiflora</i>	0.5	0.1
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.3	0.1
<i>Banksia shuttleworthiana</i>	0.8	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	0.1
<i>Cassytha flava</i>		0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.3	0.1
<i>Conostylis canteriata</i>	0.6	0.1
<i>Crassula colorata</i> var. <i>acuminata</i>	0.1	0.1
<i>Daviesia nudiflora</i>	0.6	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.8	2
<i>Hakea polyanthema</i>	0.6	0.1
<i>Hakea trifurcata</i>	1	0.5
<i>Hibbertia crassifolia</i>	0.4	0.2
<i>Hibbertia hypericoides</i>	0.5	10
<i>Hyalosperma cotula</i>	0.05	0.1

<i>*Hypochaeris glabra</i>	0.05	0.1
<i>Isotoma hypocrateriformis</i>	0.3	0.1
<i>Jacksonia nutans</i>	0.5	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.2	0.1
<i>Levenhookia stipitata</i>	0.05	0.1
<i>Lobelia rhytidosperma</i>	0.1	0.1
<i>Melaleuca leuropoma</i>	0.6	15
<i>Mesomelaena pseudostygia</i>	0.3	0.1
<i>Mirbelia trichocalyx</i>	0.3	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>*Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Petrophile macrostachya</i>	1	0.1
<i>Pileanthus filifolius</i>	0.4	1
<i>Pimelea angustifolia</i>	0.4	0.1
<i>Podotrochea gnaphalioides</i>	0.1	0.1
<i>Pterochaeta paniculata</i>	0.05	0.1
<i>Schoenus badius</i> (2)	0.05	0.1
<i>Schoenus clandestinus</i>	0.05	0.1
<i>Scholtzia laxiflora</i>	0.6	1
<i>Siloxerus filifolius</i>	0.02	0.1
<i>Stenanthemum intricatum</i>	0.1	0.1
<i>Stylidium androsaceum</i>	0.05	0.1
<i>Stylidium crossocephalum</i>	0.1	0.1
<i>Stylidium purpureum</i> ms	0.2	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Thryptomene ?racemulosa</i>	0.6	0.1
<i>Trachymene pilosa</i>	0.05	0.1
<i>Verticordia laciniata</i>	0.6	0.1
<i>Verticordia pennigera</i>	0.4	0.1

**PHOTOS**



Site Name: WE035  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 333847E 6747008N  
 Community: 12  
 Landform Type: Mid Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: SW  
 Soil Type: Sand  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: >7 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Actinotus leucocephalus</i>	0.1	0.1
<i>Allocasuarina humilis</i>	0.1	1
<i>Allocasuarina microstachya</i>	0.3	0.1
<i>Austrostipa macalpinei</i>	0.1	0.1
<i>Baeckea grandiflora</i>	0.5	0.1
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.1
<i>Banksia sessilis</i> var. <i>flabellifolia</i>	2	2
<i>Beaufortia elegans</i>	0.1	0.2
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	3	0.1
<i>Burchardia congesta</i>	0.6	0.1
<i>Calothamnus sanguineus</i>	0.6	0.1
<i>Calytrix sapphirina</i>	0.3	0.1
<i>Cassytha flava</i>		0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Caustis dioica</i>	0.3	0.1
<i>Centrolepis pilosa</i>	0.05	0.1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.6	0.1
<i>Conostylis canteriata</i>	0.1	0.1
<i>Darwinia speciosa</i>	0.3	0.1
<i>Desmocladius parthenicus</i>	0.4	0.1
<i>Drosera eneabba</i>	0.05	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.6	1



<i>Eucalyptus tottiana</i>	6	1
<i>Hakea trifurcata</i>	1.2	0.1
<i>Hibbertia crassifolia</i>	0.6	0.5
<i>Hibbertia hypericoides</i>	0.6	2
<i>Jacksonia nutans</i>	0.5	1
<i>Lepidosperma tenue</i>	0.6	0.3
<i>Leptospermum oligandrum</i>	0.3	0.1
<i>Leptospermum spinescens</i>	0.4	0.1
<i>Levenhookia stipitata</i>	0.05	0.1
<i>Lysinema pentapetalum</i>	0.1	0.1
<i>Melaleuca aff. leuropoma</i>	1	10
<i>Melaleuca leuropoma</i>	0.4	3
<i>Neurachne alopecuroidea</i>	0.3	0.1
<i>Petrophile brevifolia</i>	0.4	0.1
<i>Pileanthus filifolius</i>	0.3	1
<i>Pterochaeta paniculata</i>	0.05	0.1
<i>Schoenus clandestinus</i>	0.05	0.1
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.4	0.1
<i>Trachymene pilosa</i>	0.05	0.1
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1	0.1

**PHOTOS**

Site Name: WE036  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 24/10/2011  
 GPS Location: GDA94 (Zone 50) 333249E 6742064N  
 Community: 9  
 Landform Type: Breakaway slope (other)  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: N  
 Soil Type: Clay Loam  
 Soil Colour: Grey/ white (other)  
 Rock Outcrop: (other), 10-20% bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Allocasuarina campestris</i>	0.6	1.5
<i>Amphipogon caricinus</i>	0.1	0.3
<i>Astroloma pedicellatum</i> ms	0.3	0.2
<i>Borya sphaerocephala</i>	0.1	0.2
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.2	0.1
<i>Calytrix depressa</i>	0.3	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Centrolepis aristata</i>	0.1	0.1
<i>Comesperma volubile</i>	0.2	0.1
<i>Dampiera lindleyi</i>	0.2	0.1
<i>Dodonaea ericoides</i>	0.3	0.2
<i>Ecdeiocolea monostachya</i>	0.5	0.5
<i>Gastrolobium plicatum</i>	0.3	0.3
<i>Glischrocaryon aureum</i>	0.3	0.3
<i>Goodenia micrantha</i>	0.1	0.1
<i>Goodenia trichophylla</i>	0.1	0.1
<i>Guichenotia sarotes</i>	0.2	0.2
<i>Hakea lissocarpha</i>	0.2	0.2
<i>Isotoma hypocrateriformis</i>	0.1	0.2
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery)	0.3	0.3

7000)		
<i>Lepidosperma tenue</i>	0.4	1
<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)	0.1	0.1
<i>Lobelia rarifolia</i>	0.1	0.1
<i>Melaleuca tinkerii</i>	0.4	40
<i>Micromyrtus rogeri</i> (1)	0.3	4
<i>Mirbelia floribunda</i>	0.3	0.2
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.1
<i>Petrophile chrysantha</i>	0.3	0.1
<i>Pimelea imbricata</i> var. <i>piligera</i>	0.1	0.1
<i>Pterochaeta paniculata</i>	0.1	0.1
<i>Stylidium caricifolium</i>	0.2	0.3
<i>Stylidium torticarpum</i> (3)	0.1	3
<i>Verticordia chrysanthella</i>	0.4	3
<i>Verticordia huegelii</i>	0.3	0.3

**PHOTOS**

Site Name: WE037  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/10/2011  
 GPS Location: GDA94 (Zone 50) 335800E 6744971N  
 Community: 14  
 Landform Type: Broad depression  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Clay Loam  
 Soil Colour: Grey/Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia dilatata</i>	0.2	0.4
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.4	0.2
<i>Actinotus leucocephalus</i>	0.2	0.2
<i>Allocasuarina humilis</i>	0.4	0.2
<i>Allocasuarina microstachya</i>	0.4	4
<i>Austrostipa compressa</i>	0.3	0.2
<i>Babingtonia camphorosmae</i>	0.2	0.5
<i>Banksia carlinoides</i>	0.6	5
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.2
<i>Borya sphaerocephala</i>	0.1	0.2
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	2
<i>Calothamnus sanguineus</i>	1.2	3
<i>Calytrix depressa</i>	0.3	5
<i>Cassytha ?pomiformis</i>		0.4
<i>Caustis dioica</i>	0.2	0.1
<i>Centrolepis polygyna</i>	0.1	0.1
<i>Chordifex sinuosus</i>	0.3	0.3
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.2	0.4
<i>Cryptandra myriantha</i>	0.2	0.1
<i>Dampiera teres</i> (broad-leaf variant)	0.2	0.1
<i>Drosera menziesii</i>	0.1	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.4	3

<i>Gnephosis tenuissima</i>	0.1	0.1
<i>Goodenia coerulea</i>	0.2	0.2
<i>Hakea costata</i>	0.4	0.5
<i>Hakea lissocarpa</i>	0.4	2
<i>Harperia lateriflora</i>	0.2	15
<i>Hibbertia acerosa</i>	0.1	0.1
<i>Hibbertia crassifolia</i>	0.4	0.3
<i>Hypocalymma hirsutum</i>	0.1	0.1
<i>Jacksonia angulata</i>	0.4	0.2
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Lepidosperma</i> aff. <i>costale</i>	0.4	0.5
<i>Leucopogon glaucifolius</i>	0.2	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.4	0.2
<i>Levenhookia octomaculata</i>	0.1	0.2
<i>Lobelia rhytidosperma</i>	0.1	0.1
<i>Melaleuca aspalathoides</i>	0.3	5
<i>Mesomelaena tetragona</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.2
<i>Opercularia vaginata</i>	0.2	1
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Petrophile seminuda</i>	0.4	0.3
<i>Podotrochea gnaphalioides</i>	0.1	0.1
<i>Pterochaeta paniculata</i>	0.1	0.2
<i>Ptilotus manglesii</i>	0.1	0.1
<i>Schoenus badius</i> (2)	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.4	1
<i>Stylidium dichotomum</i>	0.2	0.3
<i>Stylidium purpureum</i> ms	0.2	0.1
<i>Trachymene pilosa</i>	0.1	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	1	5
<i>Verticordia pennigera</i>	0.2	0.2
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1	0.1



**PHOTOS**



Site Name: WE038  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/10/2011  
 GPS Location: GDA94 (Zone 50) 337363E 6744876N  
 Community: 13b  
 Landform Type: Open Depression  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Sand  
 Soil Colour: Yellow-Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia blakelyi</i>	1.7	1
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.4	0.2
<i>Allocasuarina humilis</i>	0.7	1.5
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.1	0.1
<i>Austrostipa compressa</i>	0.3	0.2
<i>Austrostipa hemipogon</i>	1.6	0.3
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	1.5
<i>Banksia scabrella</i> (4)	1.5	15
<i>Banksia sessilis</i> var. <i>flabellifolia</i>	2.5	15
<i>Beaufortia elegans</i>	1.2	3
<i>Calothamnus sanguineus</i>	1.5	5
<i>Calytrix fraseri</i>	0.5	0.2
<i>Calytrix strigosa</i>	0.3	1.5
<i>Centrolepis pilosa</i>	0.1	0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.2	0.3
<i>Conostylis candicans</i>	0.1	0.1
<i>Conostylis canteriata</i>	0.1	0.1
<i>Desmocladus lateriticus</i>	0.2	0.1
<i>Desmocladus parthenicus</i>	0.2	0.3
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.5	0.5
<i>Eremaea ectadioclada</i>	0.4	0.5
<i>Eucalyptus todtiana</i>	7	5

<i>Hakea costata</i>	1.2	0.4
<i>Hakea polyanthema</i>	0.5	1
<i>Hakea trifurcata</i>	1.4	2
<i>Hibbertia subvaginata</i>	0.5	0.5
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	3
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	0.4	0.5
<i>Levenhookia octomaculata</i>	0.1	0.1
<i>Lomandra hastilis</i>	0.4	0.2
<i>Melaleuca leuropoma</i>	0.5	6
<i>Mesomelaena pseudostygia</i>	0.4	0.2
<i>Neurachne alopecuroidea</i>	0.3	0.1
<i>Petrophile scabriuscula</i>	0.7	0.8
<i>Thysanotus thyrsoides</i>	0.4	0.1
<i>Trachymene pilosa</i>	0.1	0.2
<i>Verticordia densiflora</i> var. <i>densiflora</i>	1.2	4
<i>Wahlenbergia gracilentia</i>	0.1	0.1

**PHOTOS**

Site Name: WE039  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/10/2011  
 GPS Location: GDA94 (Zone 50) 337742E 6745079N  
 Community: 7b  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Sandy Loam  
 Soil Colour: Brown  
 Rock Outcrop: Laterite, 10-20% bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 6-20mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuarina</i>		
<i>Acacia dilatata</i>	0.2	0.2
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.2	0.1
<i>Allocasuarina campestris</i>	1.5	30
<i>Allocasuarina humilis</i>	0.5	0.5
<i>Baeckea grandiflora</i>	0.4	0.2
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.4	2
<i>Banksia shuttleworthiana</i>	0.3	1
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>		
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus longissimus</i>	0.5	0.3
<i>Calothamnus sanguineus</i>	0.6	0.5
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Cassytha</i> ? <i>pomiformis</i>		0.1
<i>Dampiera lindleyi</i>	0.3	0.3
<i>Dampiera teres</i> (broad-leaf variant)	0.2	0.2
<i>Daviesia daphnoides</i>	0.4	0.3
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.4	0.2
<i>Daviesia</i> ? <i>umbonata</i>	0.6	0.5

<i>Ecdeiocolea monostachya</i>	0.6	10
<i>Gastrolobium spinosum</i>	1.5	3
<i>Glischrocaryon aureum</i>	0.6	0.5
<i>Goodenia hassallii</i>	0.3	0.2
<i>Hakea auriculata</i>	1	5
<i>Hakea incrassata</i>	0.3	0.5
<i>Hakea stenocarpa</i>	0.4	0.3
<i>Halgania</i> sp. Wongan Hills (K.F. Kenneally 2393)	0.3	0.5
<i>Hibbertia hypericoides</i>	0.3	0.3
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.5	4
<i>Isopogon divergens</i>	0.5	3
<i>Isotropis drummondii</i>	0.3	0.1
<i>Jacksonia foliosa</i>		
<i>Jacksonia macrocalyx</i>		
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.2
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.1
<i>Lepidosperma tenue</i>	0.3	0.2
<i>Lobelia rarifolia</i>	0.1	0.1
<i>Melaleuca aspalathoides</i>	0.3	6
<i>Mesomelaena pseudostygia</i>	0.3	0.2
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Patersonia graminea</i>		
<i>Petrophile brevifolia</i>	0.3	0.4
<i>Petrophile shuttleworthiana</i>	1	5
<i>Schoenus brevisetis</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Tricoryne humilis</i>	0.2	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.4	0.2



**PHOTOS**



Site Name: WE040  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/10/2011  
 GPS Location: GDA94 (Zone 50) 338044E 6744932N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NE  
 Soil Type: Sand  
 Soil Colour: Yellow  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia blakelyi</i>	2	0.3
<i>Actinotus leucocephalus</i>	0.1	0.1
<i>Amphipogon caricinus</i>	0.1	0.1
<i>Astroloma pedicellatum</i> ms	0.3	0.2
<i>Austrostipa compressa</i>	0.3	0.3
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calytrix strigosa</i>	0.2	0.3
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.3
<i>Cassytha</i> ? <i>pomiformis</i>		0.1
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Cryptandra myriantha</i>	0.3	0.2
<i>Cryptandra pungens</i>	0.5	0.1
<i>Dampiera oligophylla</i>	0.3	0.2
<i>Dampiera spicigera</i>	0.2	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.6	2
<i>Daviesia nudiflora</i>	0.3	0.2
<i>Ecdeiocolea monostachya</i>	1	20
<i>Geleznovia verrucosa</i>	0.4	0.1
<i>Grevillea biformis</i> subsp. <i>biformis</i>	2	1
<i>Hakea circumalata</i>	1	5
<i>Hakea cygna</i> subsp. <i>cygna</i>	0.8	2

<i>Hibbertia hypericoides</i>	0.4	1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>		0.3
<i>Lepidosperma brunonianum</i> sens. <i>lat.</i>	0.2	0.1
<i>Leptospermum spinescens</i>	0.2	0.1
<i>Leucopogon planifolius</i>	0.3	0.2
<i>Levenhookia stipitata</i>	0.1	0.1
<i>Melaleuca leuropoma</i>	0.5	3
<i>Mesomelaena pseudostygia</i>	0.4	0.5
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.2	1
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.1	0.2
<i>Pileanthus filifolius</i>	0.2	0.2
<i>Pterochaeta paniculata</i>	0.1	0.1
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.8	0.1
<i>Stackhousia dielsii</i>	0.3	0.1
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.3	0.1
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1	0.1
<i>Xanthorrhoea drummondii</i>	1.8	1

**PHOTOS**

Site Name: WE041  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/10/2011  
 GPS Location: GDA94 (Zone 50) 336402E 6745548N  
 Community: 7b  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Sand  
 Soil Colour: Grey/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia dilatata</i>	0.4	0.3
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.2	0.1
<i>Allocasuarina humilis</i>	0.4	0.3
<i>Astroloma microdonta</i>	0.1	0.1
<i>Austrostipa compressa</i>	0.3	0.2
<i>Babingtonia camphorosmae</i>	0.2	0.2
<i>Banksia carlinoides</i>	1	7
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.3
<i>Banksia scabrella</i> (4)	1	7
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus sanguineus</i>	0.6	0.5
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.2
<i>Cassytha</i> ? <i>pomiformis</i>		0.2
<i>Caustis dioica</i>	0.3	0.2
<i>Dampiera lindleyi</i>	0.3	0.2
<i>Daviesia daphnoides</i>	1	3
<i>Daviesia incrassata</i> subsp. <i>teres</i>	0.5	0.5
<i>Diplolaena eneabbensis</i>	0.4	0.3
<i>Ecdeiocolea monostachya</i>	1	12
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	1	2
<i>Goodenia coerulea</i>	0.3	0.1
<i>Hakea circumalata</i>	0.3	0.3

<i>Hakea incrassata</i>	0.3	0.3
<i>Hakea lissocarpha</i>	0.4	0.2
<i>Hakea trifurcata</i>	1.5	5
<i>Hibbertia crassifolia</i>	0.2	0.1
<i>Hibbertia hypericoides</i>	0.4	1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.2	0.5
<i>Lepidosperma</i> aff. <i>costale</i>	0.3	0.2
<i>Lobelia rhytidosperma</i>	0.1	0.1
<i>Melaleuca aspalathoides</i>	0.4	4
<i>Melaleuca leuropoma</i>	0.4	1
<i>Melaleuca</i> aff. <i>leuropoma</i>	1	0.4
<i>Mesomelaena pseudostygia</i>	0.3	1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.2
<i>Petrophile brevifolia</i>	0.3	0.4
<i>Pileanthus filifolius</i>	0.3	0.2
<i>Pterochaeta paniculata</i>	0.1	0.1
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus armeria</i>	0.2	0.2
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.6	0.5

**PHOTOS**



Site Name: WE042  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 338575E 6744330N  
 Community: 8  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Clay Loam  
 Soil Colour: Grey/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm  
 Vegetation Condition: 1 - Pristine  
 Fire: < 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia acuaria</i>	0.4	0.2
<i>Actinotus leucocephalus</i>	0.1	0.1
<i>Allocasuarina campestris</i>	1.2	8
<i>Baeckea grandiflora</i>	0.4	0.1
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.4	3
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.2	0.2
<i>Boronia cymosa</i>	0.3	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.3	0.5
<i>Calytrix gracilis</i>	0.3	0.5
<i>Conostylis androstemma</i>	0.2	0.1
<i>Dampiera teres</i> (broad-leaf variant)	0.2	0.1
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.3	0.2
<i>Daviesia ?umbonata</i>	0.3	0.3
<i>Ecdeiocolea monostachya</i>	0.5	2
<i>Eucalyptus conveniens</i>	2	8
<i>Gastrolobium spinosum</i>	0.5	2
<i>Geleznowia verrucosa</i>	0.1	0.1
<i>Glischrocaryon aureum</i>	0.3	0.3
<i>Gompholobium muticum</i>	0.1	0.3

<i>Goodenia coerulea</i>	0.1	0.1
<i>Goodenia hassallii</i>	0.2	0.2
<i>Grevillea biformis</i> subsp. <i>biformis</i>	0.5	1
<i>Guichenotia micrantha</i>	0.5	1
<i>Hakea auriculata</i>	0.5	2
<i>Hakea circumalata</i>	0.3	0.2
<i>Hakea lissocarpha</i>	0.5	0.5
<i>Hakea meisneriana</i>	0.4	1
<i>Hibbertia hypericoides</i>	0.4	0.2
<i>Isopogon divergens</i>	0.4	0.5
<i>Isotoma hypocrateriformis</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.3
<i>Lepidosperma pubisquameum</i>	0.3	0.1
<i>Melaleuca aspalathoides</i>	0.3	0.5
<i>Melaleuca radula</i>	0.4	0.5
<i>Mesomelaena preissii</i>	0.2	0.1
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.2	0.3
<i>Micromyrtus rogeri</i> (1)	0.3	0.5
<i>Mirbelia trichocalyx</i>	0.3	0.5
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.3
<i>Patersonia graminea</i>	0.3	0.1
<i>Petrophile brevifolia</i>	0.4	0.3
<i>Polianthion wichurae</i>	0.4	0.2
<i>Scaevola canescens</i>	0.1	0.3
<i>Schoenus armeria</i>	0.2	0.3
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stenanthemum</i> aff. <i>notiale</i> subsp. <i>notiale</i>	0.3	0.2
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Synaphea oulopha</i> (1)	0.1	0.1
<i>Thysanotus dichotomus</i>	0.3	0.2
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1	0.1
<i>Xanthorrhoea drummondii</i>	1	1

**PHOTOS**



Site Name: WE043  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 338568E 6743966N  
 Community: 8  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Loam  
 Soil Colour: Grey/Brown (other)  
 Rock Outcrop: 2-10% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 Vegetation Condition: 1 - Pristine  
 Fire: < 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia acuaria</i>	0.3	0.5
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.2	0.1
<i>Allocasuarina humilis</i>	0.2	0.2
<i>Baeckea grandiflora</i>	0.2	0.1
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.4	2
<i>Banksia shuttleworthiana</i>	0.3	0.3
<i>Boronia cymosa</i>	0.3	0.2
<i>Burchardia congesta</i>	0.3	0.1
<i>Conostylis androstemma</i>	0.1	0.1
<i>Cryptandra myriantha</i>	0.2	0.1
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.3	1.5
<i>Diuris setacea</i>	0.2	0.1
<i>Dodonaea ericoides</i>	0.2	0.2
<i>Ecdeiocolea monostachya</i>	0.5	15
<i>Gastrolobium plicatum</i>	0.5	0.3
<i>Geleznowia verrucosa</i>	0.3	0.1
<i>Glischrocaryon aureum</i>	0.4	0.5
<i>Goodenia coerulea</i>	0.2	0.1
<i>Goodenia hassallii</i>	0.2	0.1
<i>Grevillea bififormis</i> subsp. <i>bififormis</i>	0.4	0.2

<i>Hakea auriculata</i>	0.4	5
<i>Hakea lissocarpha</i>	0.3	0.4
<i>Hibbertia hypericoides</i>	0.3	0.2
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.1	0.1
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Jacksonia foliosa</i>	0.3	2
<i>Jacksonia restioides</i>	0.2	0.3
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.1	0.2
<i>Melaleuca aspalathoides</i>	0.3	15
<i>Melaleuca radula</i>	0.5	1
<i>Mesomelaena preissii</i>	0.2	0.1
<i>Mesomelaena pseudostygia</i>	0.2	0.3
<i>Micromyrtus rogeri</i> (1)	0.3	1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.1
<i>Patersonia graminea</i>	0.2	0.1
<i>Petrophile shuttleworthiana</i>	0.3	0.5
<i>Pimelea sulphurea</i>	0.3	0.1
<i>Scaevola canescens</i>	0.1	0.1
<i>Scaevola glandulifera</i>		
<i>Schoenus armeria</i>	0.2	0.5
<i>Schoenus clandestinus</i>	0.1	1
<i>Synaphea oulopha</i> (1)	0.2	0.1
<i>Tricoryne humilis</i>	0.1	0.1



**PHOTOS**



Site Name: WE044  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 336322E 6743744N  
 Community: 7b  
 Landform Type: Lower Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: <5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia dilatata</i>	0.3	0.2
<i>Acacia fagonioides</i>	0.3	0.4
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.6	0.5
<i>Allocasuarina humilis</i>	0.5	4
<i>Allocasuarina microstachya</i>	0.4	1
<i>Amphipogon caricinus</i>	0.4	0.1
<i>Austrostipa compressa</i>	0.3	0.2
<i>Babingtonia camphorosmae</i>	0.2	0.5
<i>Banksia carlinoides</i>	0.4	0.4
<i>Banksia fraseri</i> var. <i>?fraseri</i>	0.4	0.4
<i>Boronia cymosa</i>	0.3	0.2
<i>Borya sphaerocephala</i>	0.1	0.2
<i>Burchardia congesta</i>	0.2	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.6	0.5
<i>Calothamnus sanguineus</i>	0.4	1
<i>Calytrix depressa</i>	0.2	1
<i>Calytrix flavescens</i>	0.2	0.5
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Caustis dioica</i>	0.2	0.1
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.1	0.1
<i>Conostylis canteriata</i>	0.1	0.1
<i>Cristonia biloba</i>	0.3	0.1
<i>Cryptandra pungens</i>	0.5	0.5

<i>Cryptandra spyridioides</i>	0.1	0.3
<i>Dampiera lindleyi</i>	0.3	0.2
<i>Daviesia incrassata</i> subsp. <i>teres</i>	0.3	0.2
<i>Daviesia oxyclada</i>	0.2	0.5
<i>Daviesia pedunculata</i>	0.2	0.1
<i>Desmocladius lateriticus</i>	0.2	0.1
<i>Dianella revoluta</i>	0.6	0.2
<i>Ecdeiocolea monostachya</i>	0.5	8
<i>Eremaea beaufortoides</i> var. <i>microphylla</i>	0.3	0.3
<i>Eucalyptus conveniens</i>	2.5	6
<i>Gastrolobium plicatum</i>	0.2	0.2
<i>Goodenia coerulea</i>	0.1	0.1
<i>Goodenia trichophylla</i>	0.1	0.1
<i>Hakea circumalata</i>	0.5	0.5
<i>Hakea incrassata</i>	0.4	2
<i>Hakea lissocarpha</i>	0.4	0.4
<i>Hakea polyanthema</i>	0.4	0.5
<i>Hakea spathulata</i>	0.3	0.5
<i>Harperia lateriflora</i>	0.2	0.1
<i>Hibbertia crassifolia</i>	0.4	0.3
<i>Hibbertia hypericoides</i>	0.5	0.5
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Jacksonia nutans</i>	0.3	0.5
<i>Lasiopetalum drummondii</i>	0.3	0.1
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.2	0.1
<i>Lepidosperma pubisquameum</i>	0.2	0.1
<i>Leptospermum oligandrum</i>	0.4	0.2
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.3	0.3
<i>Lobelia rhytidisperma</i>	0.1	0.1
<i>Melaleuca</i> aff. <i>leuropoma</i>	0.5	0.3
<i>Melaleuca trichophylla</i>	0.2	3
<i>Mesomelaena pseudostygia</i>	0.3	0.3
<i>Monotaxis bracteata</i>	0.1	0.1
<i>Neurachne alopecuroidea</i>	0.2	0.3
<i>Opercularia vaginata</i>	0.2	0.4
<i>Patersonia graminea</i>	0.2	0.1
<i>Petrophile brevifolia</i>	0.3	0.5
<i>Polianthion wichurae</i>	0.4	0.3
<i>Ptilotus manglesii</i>	0.1	0.1
<i>Schoenus brevisetis</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Schoenus unispiculatus</i>	0.1	0.1

<i>Stenanthemum intricatum</i>	0.1	0.1
<i>Stylidium adpressum</i>	0.1	0.1
<i>Stylidium dichotomum</i>	0.1	0.2
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.2	0.1
<i>Stylidium purpureum</i> ms	0.1	0.1
<i>Thryptomene ?racemulosa</i>	0.2	0.1
<i>Trachymene pilosa</i>	0.1	0.1
<i>Tripterococcus brunonis</i>	0.2	0.1
<i>Verticordia pennigera</i>	0.2	0.1

**PHOTOS**

Site Name: WE045  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 336346E 6744538N  
 Community: 9  
 Landform Type: Perched puddle (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: NE  
 Soil Type: Clay Loam  
 Soil Colour: Grey/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 Vegetation Condition: 1 - Pristine  
 Fire: <5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Allocasuarina campestris</i>	0.5	2
<i>Amphipogon caricinus</i>	0.1	0.1
<i>Astroloma pedicellatum</i> ms	0.2	0.5
<i>Borya sphaerocephala</i>	0.1	0.5
<i>Calothamnus longissimus</i>	0.3	0.1
<i>Calytrix depressa</i>	0.2	0.5
<i>Calytrix gracilis</i>	0.2	0.1
<i>Cassytha ?pomiformis</i>		0.4
<i>Conostylis androstemma</i>	0.2	0.1
<i>Cryptandra myriantha</i>	0.3	0.1
<i>Dampiera teres</i>	0.2	0.2
<i>Diuris setacea</i>	0.1	0.1
<i>Dodonaea ericoides</i>	0.2	0.3
<i>Ecdeiocolea monostachya</i>	0.4	1
<i>Gastrolobium plicatum</i>	0.4	0.3
<i>Goodenia trichophylla</i>	0.1	0.1
<i>Grevillea biternata</i>	0.3	0.1
<i>Hakea lissocarpha</i>	0.4	5
<i>Jacksonia angulata</i>	0.2	0.3
<i>Lepidosperma aff.scabrum</i>	0.2	0.2



<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	0.3	0.5
<i>Leucopogon leptanthus</i>	0.2	0.1
<i>Leucopogon</i> sp. Burma Road (M. Hislop 2032)	0.2	0.5
<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)	0.2	5
<i>Lobelia rarifolia</i>	0.1	0.1
<i>Melaleuca aspalathoides</i>	0.2	0.5
<i>Melaleuca concreta</i>	0.4	0.7
<i>Melaleuca marginata</i>	0.3	5
<i>Melaleuca radula</i>	0.4	0.5
<i>Melaleuca tinkerii</i>	0.3	5
<i>Mirbelia floribunda</i>	0.1	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Patersonia graminea</i>	0.2	0.1
<i>Petrophile seminuda</i>	0.3	1
<i>Schoenus clandestinus</i>	0.1	1
<i>Schoenus unispiculatus</i>	0.1	0.1
<i>Stylidium torticarpum</i> (3)	0.1	4
<i>Synaphea oulopha</i> (1)	0.2	0.1
<i>Thryptomene ?racemulosa</i>	0.2	0.2
<i>Verticordia brachypoda</i>	0.3	0.1
<i>Verticordia endlicheriana</i> var. <i>manicula</i>	0.3	5
<i>Verticordia huegelii</i>	0.2	3

**PHOTOS**



Site Name: WE046  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 337940E 6743315N  
 Community: 1b  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Sandy Loam  
 Soil Colour: Grey/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acanthocarpus canaliculatus</i>	0.2	0.4
<i>Austrostipa elegantissima</i>	0.2	0.1
<i>Desmocladus asper</i>	0.1	0.2
<i>Dianella revoluta</i>	0.1	0.1
<i>Dodonaea divaricata</i>	0.2	0.1
<i>Eucalyptus accedens</i>	9	20
<i>Gastrolobium callistachys</i>	0.4	0.2
<i>Gastrolobium plicatum</i>	1	1
<i>Glischrocaryon aureum</i>	0.1	0.2
<i>Goodenia berardiana</i>	0.1	0.2
<i>Lepidosperma tenue</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.3
<i>Olearia ?dampieri</i>	1	0.4
<i>Olearia rudis</i>	0.1	0.1
<i>Orthrosanthus laxus</i> var. <i>laxus</i>	0.1	0.1
<i>Ptilotus manglesii</i>	0.1	0.2
<i>Rhagodia preissii</i> subsp. <i>preissii</i>	0.3	0.1
<i>Santalum acuminatum</i>		
<i>Stenanthemum ?tridentatum</i>	0.1	0.2
<i>Stylidium torticarpum</i> (3)	0.1	0.1
<i>Thryptomene ?racemulosa</i>	0.6	0.2
<i>Velleia trinervis</i>	0.1	0.1

**PHOTOS**



Site Name: WE047  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 27/10/2011  
 GPS Location: GDA94 (Zone 50) 337721E 6743074N  
 Community: 7b  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Sandy Loam  
 Soil Colour: Grey/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia comans</i>	0.6	0.1
<i>Acacia stenoptera</i>	0.3	0.2
<i>Actinotus leucocephalus</i>	0.2	0.1
<i>Allocasuarina humilis</i>	1	5
<i>Allocasuarina microstachya</i>	0.3	0.2
<i>Austrostipa compressa</i>	0.3	0.5
<i>Babingtonia camphorosmae</i>	0.4	3
<i>Banksia carlinoides</i>	0.4	0.3
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.5
<i>Banksia shuttleworthiana</i>	0.3	1
<i>Boronia cymosa</i>	0.3	0.1
<i>Burchardia congesta</i>	0.1	0.1
<i>Calothamnus sanguineus</i>	0.5	2
<i>Calytrix flavescens</i>	0.2	0.2
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.2
<i>Caustis dioica</i>	0.4	1
<i>Conostylis canteriata</i>	0.1	0.1
<i>Dampiera lindleyi</i>	0.3	0.3
<i>Darwinia speciosa</i>	0.2	0.1
<i>Daviesia incrassata</i> subsp. <i>teres</i>	0.3	0.3
<i>Daviesia nudiflora</i>	0.2	0.2
<i>Ecdeiocolea monostachya</i>	0.8	5



<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.5	5
<i>Gastrolobium plicatum</i>	0.2	0.3
<i>Hakea incrassata</i>	0.4	0.2
<i>Hakea lissocarpha</i>	0.4	2
<i>Hakea polyanthema</i>	0.4	0.2
<i>Hakea spathulata</i>	0.2	0.4
<i>Harperia lateriflora</i>	0.1	0.1
<i>Hibbertia crassifolia</i>	0.4	0.5
<i>Hibbertia hypericoides</i>	0.4	2
<i>Hypocalymma hirsutum</i>	0.2	0.3
<i>Jacksonia hakeoides</i>	0.4	0.4
<i>Jacksonia nutans</i>	0.3	0.3
<i>Laxmannia omnifertilis</i>	0.2	0.1
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Leptospermum spinescens</i>	0.4	0.2
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.5	0.4
<i>Lobelia rhytidosperma</i>	0.1	0.1
<i>Melaleuca</i> aff. <i>leuropoma</i>	1	10
<i>Melaleuca leuropoma</i>	0.4	0.2
<i>Melaleuca trichophylla</i>	0.2	3
<i>Mesomelaena pseudostygia</i>	0.3	0.3
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.2
<i>Petrophile brevifolia</i>	0.4	0.2
<i>Petrophile macrostachya</i>	0.4	0.5
<i>Petrophile scabriuscula</i>	0.3	0.1
<i>Ptilotus manglesii</i>	0.1	0.1
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus brevisetis</i>	0.2	0.2
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stenanthemum intricatum</i>	0.1	0.2
<i>Stylidium purpureum</i> ms	0.2	0.1
<i>Thryptomene</i> ? <i>racemulosa</i>	0.4	3
<i>Thysanotus thyrsoideus</i>	0.3	0.1
<i>Verticordia laciniata</i>	0.3	0.1
<i>Verticordia pennigera</i>	0.3	0.3

**PHOTOS**



Site Name: WE048  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 27/10/2011  
 GPS Location: GDA94 (Zone 50) 332775E 6744405N  
 Community: 10  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SE  
 Soil Type: Sand over laterite (other)  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 7 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia auronitens</i>	0.3	0.1
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.3	0.1
<i>Actinotus leucocephalus</i>	0.1	0.1
<i>Allocasuarina microstachya</i>	0.4	1
<i>Amphipogon caricinus</i>	0.2	0.1
<i>Austrostipa macalpinei</i>	0.2	0.1
<i>Babingtonia camphorosmae</i>	0.6	0.1
<i>Banksia carlinoides</i>	0.5	0.2
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.6	0.1
<i>Banksia shuttleworthiana</i>	0.6	3
<i>Boronia cymosa</i>	0.3	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	1
<i>Calothamnus sanguineus</i>	0.6	0.3
<i>Cassytha flava</i>		0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conospermum boreale</i> subsp. ? <i>ascendens</i>	0.6	0.2
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Cristonia biloba</i>	0.6	0.1
<i>Cryptandra myriantha</i>	0.3	0.1
<i>Dampiera spicigera</i>	0.3	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.6	0.1

<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.5	0.1
<i>Daviesia nudiflora</i>	0.5	0.1
<i>Daviesia pedunculata</i>	0.3	0.1
<i>Drosera</i> ? <i>menziesii</i>	0.3	0.1
<i>Ecdeiocolea monostachya</i>	0.6	25
<i>Eremaea violacea</i> subsp. <i>violacea</i>	0.4	0.1
<i>Gastrolobium plicatum</i>	0.6	0.1
<i>Geleznovia verrucosa</i>	0.6	0.1
<i>Grevillea shuttleworthiana</i> subsp. <i>canarina</i>	0.6	0.1
<i>Hakea cygna</i> subsp. <i>cygna</i>	1	0.2
<i>Hakea incrassata</i>	0.4	0.5
<i>Hakea lissocarpha</i>	0.6	0.1
<i>Hibbertia hypericoides</i>	0.4	2
<i>Isotoma hypocrateriformis</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.1
<i>Lepidosperma brunonianum</i> sens. <i>lat.</i>	0.3	0.1
<i>Leptospermum oligandrum</i>	0.6	0.1
<i>Levenhookia stipitata</i>	0.05	0.1
<i>Melaleuca aspalathoides</i>	0.6	2
<i>Melaleuca leuropoma</i>	0.5	15
<i>Mesomelaena pseudostygia</i>	0.3	1
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.3	4
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.3	0.1
<i>Pileanthus filifolius</i>	0.4	0.1
<i>Pimelea angustifolia</i>	0.3	0.1
<i>Pterochaeta paniculata</i>	0.05	0.1
<i>Scaevola canescens</i>	0.3	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Verticordia grandis</i>	0.6	0.2
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.1	0.1
<i>Waitzia suaveolens</i> var. <i>suaveolens</i>	0.05	0.1

**PHOTOS**





Site Name: WE049  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/10/2011  
 GPS Location: GDA94 (Zone 50) 333274E 6744400N  
 Community: 13a  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SE  
 Soil Type: Sand  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 7 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.6	0.1
<i>Allocasuarina humilis</i>	1	3
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.3	0.1
<i>Austrostipa macalpinei</i>	0.3	0.1
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.3	0.1
<i>Banksia scabrella</i> (4)	0.8	1
<i>Banksia sessilis</i> var. <i>flabellifolia</i>	1.5	5
<i>Beaufortia elegans</i>	1	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus sanguineus</i>	1	3
<i>Calytrix sapphirina</i>	0.6	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Caustis dioica</i>	0.3	0.1
<i>Conostephium preissii</i>	0.3	0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.3	0.1
<i>Conostylis canteriata</i>	0.3	0.1
<i>Daviesia nudiflora</i>	6	0.1
<i>Desmocladius asper</i>	0.3	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	1	3
<i>Eremaea ectadioclada</i>	0.6	0.1
<i>Eucalyptus todtiana</i>	3	1
<i>Gompholobium tomentosum</i>	0.4	0.1

<i>Goodenia coerulea</i>	0.3	0.1
<i>Hakea psilorrhyncha</i>	2	0.3
<i>Hakea trifurcata</i>	1	0.1
<i>Hibbertia crassifolia</i>	0.3	0.1
<i>Hibbertia hypericoides</i>	0.6	1
<i>Hibbertia subvaginata</i>	0.6	0.1
<i>Hypocalymma hirsutum</i>	0.4	0.1
<i>Jacksonia hakeoides</i>	1	4
<i>Lasiopetalum drummondii</i>	0.6	0.1
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Leptospermum spinescens</i>	0.6	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.6	0.1
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	0.5	0.1
<i>Levenhookia octomaculata</i>	0.05	0.1
<i>Lomandra hastilis</i>	0.6	0.1
<i>Lyginia imberbis</i>	0.3	0.1
<i>Macrozamia fraseri</i>	2	1
<i>Melaleuca leuropoma</i>	0.5	10
<i>Melaleuca</i> aff. <i>leuropoma</i>	1	20
<i>Nuytsia floribunda</i>	0.6	0.1
<i>Patersonia occidentalis</i>	0.3	0.1
<i>Petrophile scabriuscula</i>	1	0.1
<i>Pimelea leucantha</i>	0.6	0.1
<i>Podotrochea gnaphalioides</i>	0.3	0.1
<i>Quoya verbascina</i>	0.4	0.1
<i>Schoenus brevisetis</i>	0.1	0.1
<i>Schoenus curvifolius</i>	0.3	0.1
<i>Scholtzia laxiflora</i>	0.8	1
<i>Stachystemon axillaris</i>	1	0.1
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.4	0.1
<i>Stylidium crossocephalum</i>	0.1	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Stylidium rigidulum</i>	0.1	0.1
<i>Trachymene pilosa</i>	0.05	0.1
<i>Verticordia laciniata</i>	0.8	0.1

**PHOTOS**



Site Name: WE050  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 27/10/2011  
 GPS Location: GDA94 (Zone 50) 333605E 6744182N  
 Community: 13b  
 Landform Type: Drainage Line  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: SW  
 Soil Type: Sand  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 7 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia dilatata</i>	0.3	0.1
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	1	0.1
<i>Allocasuarina humilis</i>	1	2
<i>Babingtonia camphorosmae</i>	0.5	2
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.3	0.1
<i>Banksia scabrella</i> (4)	1	20
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	15
<i>Calothamnus sanguineus</i>	1	1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.3	0.1
<i>Dampiera lindleyi</i>	0.3	2
<i>Daviesia oxyclada</i>	0.3	0.1
<i>Desmocladius asper</i>	0.3	0.1
<i>Drosera</i> ? <i>menziesii</i>	0.1	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	1	1
<i>Eucalyptus todtiana</i>	2	5
<i>Gompholobium tomentosum</i>	0.8	0.1
<i>Goodenia coerulea</i>	0.3	0.5
<i>Hakea lissocarpha</i>	0.6	3
<i>Hakea trifurcata</i>	1	1
<i>Hibbertia acerosa</i>	0.3	0.1
<i>Hibbertia crassifolia</i>	0.2	0.1

<i>Hypocalymma hirsutum</i>	0.3	0.1
<i>Isotoma hypocrateriformis</i>	0.1	0.1
<i>Lepidosperma tenue</i>	0.4	0.1
<i>Lyginia imberbis</i>	0.2	0.1
<i>Melaleuca aff.leuropoma</i>	1	25
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Petrophile megalostegia</i>	0.4	0.1
<i>Pterochaeta paniculata</i>	0.05	0.1
<i>Ptilotus manglesii</i>	0.1	0.1
<i>Siloxerus filifolius</i>	0.05	0.1
<i>Stylidium androsaceum</i>	0.05	0.1
<i>Stylidium dichotomum</i>	0.1	0.1
<i>Trachymene pilosa</i>	0.05	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	1	0.1
<i>Verticordia pennigera</i>	0.4	1
<i>Xanthorrhoea ?brunonis</i>	0.6	0.1

**PHOTOS**



Site Name: WE051  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 20/11/2011  
 GPS Location: GDA94 (Zone 50) 338243E 6740745N  
 Community: 7a  
 Landform Type: Mid Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: N  
 Soil Type: Clay Loam  
 Soil Colour: Grey/Brown  
 Rock Outcrop: Granite, No bedrock exposed  
 CF Abundance: 20-50%  
 Vegetation Condition: 1 - Pristine  
 Fire: <5y

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: *Melaleuca aspalathoides*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia comans</i>	0.3	0.2
<i>Allocasuarina campestris</i>	0.3	0.1
<i>Allocasuarina humilis</i>	0.4	0.1
<i>Allocasuarina microstachya</i>	0.3	1
<i>Amphipogon caricinus</i>	0.2	0.1
<i>Babingtonia camphorosmae</i>	0.2	2
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.3	0.5
<i>Banksia shuttleworthiana</i>	0.3	0.5
<i>Boronia cymosa</i>	0.2	0.2
<i>Borya sphaerocephala</i>	0.1	10
<i>Burchardia congesta</i>	0.3	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.2	0.2
<i>Conostylis androstemma</i>	0.2	0.2
<i>Cryptandra myriantha</i>	0.3	0.2
<i>Dampiera teres</i> (broad-leaf variant)	0.2	0.2
<i>Daviesia daphnoides</i>	0.5	3
<i>Daviesia oxyclada</i>	0.2	0.3
<i>Dodonaea ericoides</i>	0.2	0.3
<i>Ecdeiocolea monostachya</i>	0.4	8

<i>Gastrolobium plicatum</i>	0.3	0.2
<i>Glischrocaryon aureum</i>	0.3	0.3
<i>Goodenia hassallii</i>	0.3	0.3
<i>Goodenia trichophylla</i>	0.2	0.1
<i>Hakea auriculata</i>	0.5	4
<i>Hakea circumalata</i>	0.3	0.2
<i>Hakea incrassata</i>	0.5	3
<i>Hakea lissocarpha</i>	0.4	1
<i>Hibbertia crassifolia</i>	0.3	0.2
<i>Hibbertia hypericoides</i>	0.3	2
<i>Jacksonia restioides</i>	0.3	0.5
<i>Laxmannia omnifertilis</i>	0.1	0.1
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	3
<i>Lomandra</i> ? <i>micrantha</i> subsp. <i>micrantha</i>	0.2	0.1
<i>Melaleuca aspalathoides</i>	0.4	30
<i>Melaleuca tinkerii</i>	0.3	0.2
<i>Melaleuca trichophylla</i>	0.2	0.5
<i>Mesomelaena pseudostygia</i>	0.3	0.2
<i>Mirbelia floribunda</i>	0.1	0.1
<i>Neurachne alopecuroidea</i>	0.2	0.2
<i>Opercularia vaginata</i>	0.1	0.1
<i>Patersonia graminea</i>	0.2	0.1
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Petrophile shuttleworthiana</i>	0.5	3
<i>Platysace juncea sens. lat.</i>	0.4	0.1
<i>Schoenus armeria</i>	0.2	0.5
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Synaphea aephynsa</i> (3)	0.2	0.2
<i>Tricoryne humilis</i>	0.1	0.1

**PHOTOS**



Site Name: WE052  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 20/11/2011  
 GPS Location: GDA94 (Zone 50) 338542E 6741186N  
 Community: 10  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Loam  
 Soil Colour: Yellow/Brown (other)  
 Rock Outcrop: Granite, No bedrock exposed  
 Vegetation Condition: 1 - Pristine  
 Fire: >5 y

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Acacia blakelyi*, *Grevillea biformis* subsp. *biformis*

Lower Stratum 1: *Calothamnus quadrifidus* subsp. *angustifolius*, *Ecdeiocolea monostachya*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia auronitens</i>	0.2	0.2
<i>Acacia blakelyi</i>	2.5	3
<i>Acacia comans</i>	0.3	0.2
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.3	0.2
<i>Actinotus leucocephalus</i>	0.1	0.1
<i>Astroloma serratifolium</i>	0.2	0.2
<i>Banksia shuttleworthiana</i>	0.3	2
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.3	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	15
<i>Caustis dioica</i>	0.3	0.2
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.2	0.1
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.5
<i>Cryptandra pungens</i>	0.4	0.2
<i>Cryptandra spyridioides</i>	0.1	0.1
<i>Dampiera spicigera</i>	0.3	0.2
<i>Darwinia speciosa</i>	0.2	0.1
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.3	2
<i>Daviesia nudiflora</i>	0.3	0.3
<i>Daviesia pedunculata</i>	0.3	0.2
<i>Ecdeiocolea monostachya</i>	1	10

<i>Eremaea violacea</i> subsp. <i>violacea</i>	0.2	0.4
<i>Geleznovia verrucosa</i>	0.3	0.1
<i>Goodenia coerulea</i>	0.2	0.1
<i>Grevillea biformis</i> subsp. <i>biformis</i>	0.4	0.2
<i>Grevillea shuttleworthiana</i> subsp. <i>canarina</i>	0.4	0.2
<i>Hakea circumalata</i>	0.7	3
<i>Hakea polyanthema</i>	0.5	1
<i>Hibbertia crassifolia</i>	0.3	0.2
<i>Hibbertia hypericoides</i>	0.3	0.5
<i>Isopogon tridens</i>	0.4	0.2
<i>Jacksonia macrocalyx</i>	0.3	0.5
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.4	0.5
<i>Lepidosperma pubisquameum</i>	0.3	0.2
<i>Lobelia rhytidosperma</i>	0.2	0.1
<i>Logania spermacocea</i>	0.2	0.5
<i>Melaleuca leuropoma</i>	0.3	3
<i>Mesomelaena preissii</i>	0.3	0.3
<i>Mesomelaena pseudostygia</i>	0.4	4
<i>Mirbelia trichocalyx</i>	0.3	0.2
<i>Opercularia vaginata</i>	0.2	0.3
<i>Patersonia graminea</i>	0.2	0.1
<i>Pileanthus filifolius</i>	0.3	0.4
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus brevisetis</i>	0.3	3
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.5	5
<i>Stenanthemum</i> aff. <i>notiale</i> subsp. <i>notiale</i>	0.2	0.2
<i>Stylidium adpressum</i>	0.1	0.1
<i>Thysanotus thyrsoideus</i>	0.2	0.1



**PHOTOS**



Site Name: WE053  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 27/10/2011  
 GPS Location: GDA94 (Zone 50) 338317E 6743302N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Sandy Loam  
 Soil Colour: Brown/Yellow (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Actinotus leucocephalus</i>	0.1	0.1
<i>Allocasuarina campestris</i>	1.5	15
<i>Amphipogon caricinus</i>	0.3	0.1
<i>Austrostipa compressa</i>	0.3	0.1
<i>Baeckea grandiflora</i>	0.3	0.2
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.4	0.3
<i>Boronia cymosa</i>	0.2	0.1
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calothamnus longissimus</i>	0.5	0.5
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	8
<i>Dampiera spicigera</i>	0.2	0.1
<i>Daviesia nudiflora</i>	0.4	0.5
<i>Daviesia ?umbonata</i>	0.3	0.2
<i>Ecdeiocolea monostachya</i>	1	4
<i>Eucalyptus conveniens</i>	3	5
<i>Eucalyptus pyriformis</i>	1.5	4
<i>Eucalyptus sp. (unidentified 2)</i>	1.5	5
<i>Gastrolobium spinosum</i>	0.5	1
<i>Grevillea biformis</i> subsp. <i>biformis</i>	0.2	0.1
<i>Hakea circumalata</i>	0.4	0.5
<i>Hyalosperma cotula</i>	0.1	0.1

<i>Isotoma hypocrateriformis</i>	0.2	0.2
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.3
<i>Lobelia rhytidosperma</i>	0.1	0.1
<i>Logania spermacocea</i>	0.3	0.4
<i>Melaleuca leuropoma</i>	0.3	0.3
<i>Melaleuca radula</i>	0.8	1
<i>Mesomelaena pseudostygia</i>	0.3	0.3
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.2	0.5
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Patersonia graminea</i>	0.3	0.1
<i>Ptilotus stirlingii</i>	0.2	0.1
<i>Scaevola canescens</i>	0.1	0.2
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Stenanthemum</i> aff. <i>notiale</i> subsp. <i>notiale</i>	0.1	0.1
<i>Thryptomene ?racemulosa</i>	0.4	0.2
<i>Thysanotus dichotomus</i>	0.3	0.5
<i>Thysanotus patersonii</i>		0.1
<i>Tricoryne humilis</i>	0.2	0.1

**PHOTOS**

Site Name: WE054  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 20/11/2011  
 GPS Location: GDA94 (Zone 50) 338533E 6741392N  
 Community: 13a  
 Landform Type: Lower Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: S  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: <5 y

**DOMINANT TAXA IN VEGETATION STRATA**Upper Stratum 1: *Eucalyptus todtiana*Lower Stratum 1: *Allocasuarina humilis*, *Calothamnus sanguineus*, *Hakea trifurcata***SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	1	5
<i>Acacia stenoptera</i>	0.4	0.1
<i>Actinotus leucocephalus</i>	0.1	0.1
<i>Allocasuarina humilis</i>	1	6
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.2	0.1
<i>Austrostipa hemipogon</i>	1	0.2
<i>Babingtonia camphorosmae</i>	0.2	0.3
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.5
<i>Banksia scabrella</i> (4)	1	4
<i>Banksia shuttleworthiana</i>	0.3	0.3
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	0.4	0.2
<i>Burchardia congesta</i>	0.2	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1.3	1.5
<i>Calothamnus sanguineus</i>	1.5	12
<i>Calytrix sapphirina</i>	0.4	0.5
<i>Cassytha ?pomiformis</i>		0.3
<i>Caustis dioica</i>	0.2	0.5
<i>Chordifex sinuosus</i>	0.3	0.2
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.2	0.4

<i>Conostylis canteriata</i>	0.2	0.2
<i>Conostylis hiemalis</i>	0.2	0.1
<i>Cryptandra myriantha</i>	0.2	0.2
<i>Daviesia incrassata</i> subsp. <i>teres</i>	0.4	0.4
<i>Daviesia nudiflora</i>	0.3	0.1
<i>Desmocladius parthenicus</i>	0.2	0.1
<i>Desmocladius semiplanus</i>	0.1	0.1
<i>Diplopeltis huegelii</i> subsp. <i>lehmannii</i>	0.4	0.2
<i>Eremaea beaufortoides</i> var. <i>microphylla</i>	0.4	2
<i>Eremaea ectadioclada</i>	0.4	1
<i>Eucalyptus todtiana</i>	2.5	5
<i>Gompholobium tomentosum</i>	0.4	1
<i>Gonocarpus pithyoides</i>		
<i>Goodenia coerulea</i>	0.2	0.1
<i>Hakea prostrata</i>		
<i>Hakea trifurcata</i>	1.2	7
<i>Hibbertia acerosa</i>	0.3	0.2
<i>Hibbertia crassifolia</i>	0.4	0.5
<i>Hibbertia huegelii</i>	0.3	0.2
<i>Hibbertia subvaginata</i>	0.4	0.2
<i>Jacksonia sternbergiana</i>		
<i>Lambertia multiflora</i> var. <i>multiflora</i>	1	2
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Lechenaultia hirsuta</i>	0.2	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.3	0.1
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	0.2	0.2
<i>Lyginia imberbis</i>	0.3	0.2
<i>Melaleuca leuropoma</i>	0.4	4
<i>Mesomelaena pseudostygia</i>	0.3	0.3
<i>Neurachne alopecuroidea</i>	0.3	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Patersonia occidentalis</i>	0.3	0.2
<i>Pimelea leucantha</i>	0.4	0.2
<i>Podotheca gnaphalioides</i>	0.1	0.1
<i>Quoya verbascina</i>	0.3	0.1
<i>Scaevola phlebopetala</i>	0.2	0.1
<i>Scholtzia laxiflora</i>	0.4	4
<i>Stachystemon axillaris</i>	0.4	0.2
<i>Stylidium repens</i>	0.1	0.1
<i>Tricoryne elatior</i>	0.4	0.1
<i>Xanthosia huegelii</i>	0.1	0.1

**PHOTOS**





Site Name: WE055  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 337740E 6739893N  
 Community: 7a  
 Landform Type: Upper Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: N  
 Soil Type: Clay Loam  
 Soil Colour: Pale Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 Vegetation Condition: 1 - Pristine  
 Fire: <5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*, *Gastrolobium plicatum*

Lower Stratum 1: *Melaleuca aspalathoides*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia comans</i>	0.4	0.4
<i>Allocasuarina campestris</i>	1.5	4
<i>Allocasuarina humilis</i>	0.4	0.2
<i>Allocasuarina microstachya</i>	0.3	0.5
<i>Astroloma microdonta</i>	0.2	0.1
<i>Babingtonia camphorosmae</i>	0.2	2
<i>Banksia fraseri</i> var. <i>?fraseri</i>	0.3	1
<i>Banksia shuttleworthiana</i>	0.3	0.5
<i>Boronia cymosa</i>	0.3	0.2
<i>Caladenia flava</i>	0.2	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.3	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Cassytha ?pomiformis</i>		0.2
<i>Caustis dioica</i>	0.2	0.2
<i>Chordifex sinuosus</i>	0.2	0.1
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.1	0.2
<i>Conostylis androstemma</i>	0.2	0.1
<i>Cryptandra myriantha</i>	0.3	0.2
<i>Daviesia daphnoides</i>	0.4	3

<i>Daviesia pedunculata</i>	0.2	0.3
<i>Dodonaea ericoides</i>	0.2	0.2
<i>Ecdeiocolea monostachya</i>	0.4	10
<i>Gastrolobium plicatum</i>	1.2	3
<i>Glischrocaryon aureum</i>	0.3	0.5
<i>Goodenia trichophylla</i>	0.2	0.1
<i>Hakea auriculata</i>	1	4
<i>Hakea incrassata</i>	0.4	4
<i>Hakea lissocarpha</i>	0.3	0.3
<i>Hibbertia crassifolia</i>	0.3	0.4
<i>Hibbertia hypericoides</i>	0.3	5
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Jacksonia restioides</i>	0.2	0.2
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.2
<i>Leptomeria empetriformis</i>	0.2	0.1
<i>Melaleuca aspalathoides</i>	0.3	40
<i>Melaleuca trichophylla</i>	0.2	0.2
<i>Mesomelaena pseudostygia</i>	0.3	0.5
<i>Mesomelaena tetragona</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Paracaleana dixonii</i> (T)	0.1	0.1
<i>Persoonia filiformis</i> (2)	0.2	0.1
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Petrophile chrysantha</i>	0.6	2
<i>Schoenus brevisetis</i>	0.2	0.2
<i>Schoenus clandestinus</i>	0.1	3
<i>Stylidium drummondianum</i> (3)	0.2	0.1
<i>Synaphea aephyrsa</i> (3)	0.1	0.1
<i>Verticordia chrysanthella</i>	0.3	0.2
<i>Verticordia pennigera</i>	0.4	0.2

**PHOTOS**



Site Name: WE056  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 337715E 6740616N  
 Community: 8  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Clay Loam  
 Soil Colour: Pale Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 50-90%  
 Vegetation Condition: 1 - Pristine  
 Fire: <5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus conveniens*

Lower Stratum 1: *Gastrolobium plicatum*, *Melaleuca aspalathoides*, *Melaleuca radula*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	1	4
<i>Allocasuarina grevilleoides</i> (3)	0.3	0.5
<i>Baeckea grandiflora</i>	0.2	0.1
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.3	1
<i>Boronia cymosa</i>	0.2	0.1
<i>Calothamnus longissimus</i>	0.3	4
<i>Cassytha glabella</i> forma <i>bicallosa</i>	0.1	0.1
<i>Conostylis androstemma</i>	0.2	0.1
<i>Cryptandra myriantha</i>	0.2	0.4
<i>Cryptandra pungens</i>	0.4	0.3
<i>Dampiera lindleyi</i>	0.2	0.2
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.4	1
<i>Dodonaea ericoides</i>	0.2	0.3
<i>Ecdeiocolea monostachya</i>	0.4	8
<i>Eucalyptus conveniens</i>	3.5	15
<i>Gastrolobium plicatum</i>	0.5	5
<i>Gastrolobium spinosum</i>	1	0.5
<i>Glischrocaryon aureum</i>	0.3	0.3
<i>Gompholobium marginatum</i>	0.1	0.1

<i>Guichenotia micrantha</i>	0.3	0.1
<i>Hakea auriculata</i>	0.4	3
<i>Hakea circumalata</i>	0.5	4
<i>Hakea lissocarpha</i>	0.4	1
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	0.2
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	0.3	0.3
<i>Lepidosperma tenue</i>	0.2	0.2
<i>Melaleuca aspalathoides</i>	0.3	10
<i>Melaleuca radula</i>	1	10
<i>Mesomelaena preissii</i>	0.2	0.4
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.2	0.1
<i>Patersonia graminea</i>	0.3	0.1
<i>Petrophile chrysantha</i>	0.4	0.2
<i>Petrophile shuttleworthiana</i>	0.4	0.4
<i>Polianthion wichurae</i>	0.4	0.2
<i>Schoenus armeria</i>	0.1	0.5
<i>Schoenus clandestinus</i>	0.1	1
<i>Stylidium drummondianum</i> (3)	0.1	0.1

**PHOTOS**

Site Name: WE057  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 337724E 6741008N  
 Community: 10  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: NW  
 Soil Type: Sandy Loam  
 Soil Colour: Yellow/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: < 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Grevillea biformis* subsp. *biformis*, *Grevillea eriostachya*  
 Lower Stratum 1: *Daviesia divaricata* subsp. *divaricata* ms, *Ecdeiocolea monostachya*,  
*Melaleuca leuropoma*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia auronitens</i>	0.2	0.2
<i>Acacia comans</i>	0.4	0.3
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.2	0.3
? <i>Amphipogon</i> sp.	0.1	0.1
<i>Astroloma serratifolium</i>	0.2	0.2
<i>Banksia shuttleworthiana</i>	0.3	0.5
<i>Boronia cymosa</i>	0.2	0.2
<i>Burchardia congesta</i>	0.2	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.4	1
<i>Cassytha</i> ? <i>pomiformis</i>		0.1
<i>Conospermum boreale</i> subsp. ? <i>ascendens</i>	0.5	0.3
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	3
<i>Cryptandra myriantha</i>	0.2	0.1
<i>Cryptandra pungens</i>	0.4	0.1
<i>Cryptandra spyridioides</i>	0.2	0.1
<i>Dampiera spicigera</i>	0.2	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.5	6
<i>Daviesia nudiflora</i>	0.3	0.2



<i>Daviesia pedunculata</i>	0.3	0.5
<i>Ecdeiocolea monostachya</i>	0.5	15
<i>Goodenia coerulea</i>	0.2	0.1
<i>Grevillea biformis</i> subsp. <i>biformis</i>	1.6	0.5
<i>Grevillea eriostachya</i>	1.6	1.5
<i>Hakea circumalata</i>	0.5	3
<i>Hakea polyanthema</i>	0.5	3
<i>Hibbertia crassifolia</i>	0.3	0.2
<i>Hibbertia hypericoides</i>	0.3	1
<i>Isopogon tridens</i>	0.4	0.2
<i>Jacksonia macrocalyx</i>	0.3	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	2
<i>Leptospermum oligandrum</i>	1.2	5
<i>Leptospermum spinescens</i>	0.2	0.2
<i>Melaleuca leuropoma</i>	0.4	8
<i>Mesomelaena preissii</i>	0.3	0.5
<i>Mesomelaena pseudostygia</i>	0.4	6
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.5
<i>Patersonia graminea</i>	0.2	0.1
<i>Pileanthus filifolius</i>	0.4	0.5
<i>Pimelea angustifolia</i>	0.3	0.2
<i>Scaevola canescens</i>	0.2	0.3
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.4	4
<i>Stenanthemum</i> aff. <i>notiale</i> subsp. <i>notiale</i>	0.3	0.2
<i>Stylidium adpressum</i>	0.1	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Thysanotus dichotomus</i>	0.3	0.2
<i>Tricoryne elatior</i>	0.3	0.2
<i>Verticordia grandis</i>	0.3	0.4

**PHOTOS**



Site Name: WE058  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 338117E 6741992N  
 Community: 7a  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Clay Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: <5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: *Melaleuca aspalathoides, Melaleuca tinkeri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia comans</i>	0.4	2
<i>Allocasuarina campestris</i>	0.4	0.1
<i>Allocasuarina humilis</i>	0.3	0.5
<i>Allocasuarina microstachya</i>	0.3	1
<i>Amphipogon caricinus</i>	0.1	0.1
<i>Babingtonia camphorosmae</i>	0.2	3
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.3	0.5
<i>Boronia cymosa</i>	0.3	1
<i>Borya sphaerocephala</i>	0.1	0.3
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conostylis androstemma</i>	0.2	0.4
<i>Cryptandra myriantha</i>	0.3	0.4
<i>Cryptandra pungens</i>	0.3	0.5
<i>Daviesia daphnoides</i>	0.3	0.5
<i>Daviesia oxyclada</i>	0.3	1
<i>Dodonaea ericoides</i>	0.2	0.3
<i>Ecdeiocolea monostachya</i>	0.4	3
<i>Glischrocaryon aureum</i>	0.4	4
<i>Grevillea umbellulata</i>	0.3	0.2
<i>Guichenotia sarotes</i>	0.4	0.2

<i>Hakea circumalata</i>	0.4	0.5
<i>Hakea incrassata</i>	0.4	4
<i>Hakea lissocarpha</i>	0.3	4
<i>Hakea spathulata</i>	0.3	2
<i>Hibbertia crassifolia</i>	0.3	0.4
<i>Hibbertia hypericoides</i>	0.3	1
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Isopogon divergens</i>	0.4	0.5
<i>Jacksonia angulata</i>	0.3	0.5
<i>Jacksonia restioides</i>	0.3	0.2
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.4	0.5
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.4
<i>Lepidosperma tenue</i>	0.4	0.3
<i>Leucopogon leptanthus</i>	0.3	0.2
<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)	0.2	0.5
<i>Melaleuca aspalathoides</i>	0.3	20
<i>Melaleuca radula</i>	0.4	0.3
<i>Melaleuca tinkeri</i>	0.3	0.7
<i>Melaleuca trichophylla</i>	0.2	0.5
<i>Mesomelaena preissii</i>	0.2	0.2
<i>Mirbelia floribunda</i>	0.1	0.2
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.2	0.2
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Petrophile chrysantha</i>	0.4	0.5
<i>Schoenus brevisetis</i>	0.2	0.2
<i>Schoenus clandestinus</i>	0.1	2
<i>Stylidium dichotomum</i>	0.1	0.1
<i>Verticordia pennigera</i>	0.2	0.2

**PHOTOS**



Site Name: WE059  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 338107E 6742291N  
 Community: 8  
 Landform Type: Breakaway (other)  
 Slope Class: Steep (23 degrees)  
 Aspect: E  
 Soil Type: Clay Loam  
 Soil Colour: Grey  
 Rock Outcrop: Laterite, 10-20% bedrock exposed  
 CF Abundance: 50-90%  
 Vegetation Condition: 1 - Pristine  
 Fire: < 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Melaleuca concreta*, *Melaleuca radula*

Lower Stratum 1: *Melaleuca tinkeri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuarina</i>	0.3	0.3
<i>Acacia dilatata</i>	0.2	0.3
<i>Allocasuarina campestris</i>	0.4	0.1
<i>Amphipogon caricinus</i>	0.1	0.1
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.4	5
<i>Boronia cymosa</i>	0.2	0.1
<i>Calothamnus longissimus</i>	0.3	1
<i>Cassytha</i> ? <i>pomiformis</i>		1
<i>Conostylis androstemma</i>	0.2	0.1
<i>Cryptandra myriantha</i>	0.3	0.4
<i>Cryptandra pungens</i>	0.3	0.1
<i>Dampiera lindleyi</i>	0.3	0.5
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.4	0.5
<i>Dodonaea ericoides</i>	0.3	1
<i>Ecdeiocolea monostachya</i>	0.4	5
<i>Gastrolobium plicatum</i>	0.5	5
<i>Glischrocaryon aureum</i>	0.3	0.2
<i>Gompholobium marginatum</i>	0.2	0.1
<i>Grevillea umbellulata</i>	0.3	0.2



<i>Hakea auriculata</i>	0.4	0.4
<i>Hakea lissocarpha</i>	0.3	0.2
<i>Hakea spathulata</i>	0.3	0.4
<i>Hakea trifurcata</i>	0.4	0.5
<i>Hibbertia hypericoides</i>	0.3	2
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	0.2	0.2
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.1
<i>Lepidosperma tenue</i>	0.4	2
<i>Melaleuca concreta</i>	1.2	5
<i>Melaleuca radula</i>	1	15
<i>Melaleuca tinkeri</i>	0.3	15
<i>Micromyrtus rogeri</i> (1)	0.3	3
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.4
<i>Patersonia graminea</i>	0.3	0.5
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Petrophile shuttleworthiana</i>	0.4	0.2
<i>Podotheca gnaphalioides</i>	0.2	0.1
<i>Schoenus armeria</i>	0.2	0.2
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stylidium drummondianum</i> (3)	0.2	0.1
<i>Thysanotus</i> sp.	0.1	0.1

**PHOTOS**



Site Name: WE060  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 338707E 6746507N  
 Community: 13a  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: E  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**Upper Stratum 1: *Eucalyptus todtiana*Lower Stratum 1: *Allocasuarina humilis*, *Calothamnus sanguineus*, *Hibbertia hypericoides***SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	1	1
<i>Acacia stenoptera</i>	0.3	0.2
<i>Allocasuarina humilis</i>	1	8
<i>Amphipogon turbinatus</i>	0.2	0.1
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.1	0.1
<i>Babingtonia camphorosmae</i>	0.2	1
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	1
<i>Banksia scabrella</i> (4)	0.5	1
<i>Banksia sessilis</i> var. <i>flabellifolia</i>	1.3	0.5
<i>Beaufortia elegans</i>	0.5	3
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>	0.2	0.1
<i>Calectasia narragara</i>	0.1	0.2
<i>Calothamnus sanguineus</i>	1	8
<i>Calytrix sapphirina</i>	0.5	0.5
<i>Cassytha</i> ? <i>pomiformis</i>		0.3
<i>Caustis dioica</i>	0.3	0.3
<i>Chordifex sinuosus</i>	0.1	0.1
<i>Comesperma acerosum</i>	0.3	0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.1	0.1

<i>Conostylis canteriata</i>	0.1	0.2
<i>Conostylis hiemalis</i>	0.1	0.1
<i>Daviesia incrassata</i> subsp. <i>teres</i>	0.3	0.2
<i>Desmocladius parthenicus</i>	0.3	0.2
<i>Desmocladius semiplanus</i>	0.2	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.4	1
<i>Eremaea ectadioclada</i>	0.3	2
<i>Eucalyptus todtiana</i>	6	8
<i>Gompholobium tomentosum</i>	0.5	0.5
<i>Goodenia coerulea</i>	0.4	0.2
<i>Hakea trifurcata</i>	0.8	2
<i>Hibbertia acerosa</i>	0.1	0.1
<i>Hibbertia crassifolia</i>	0.3	0.2
<i>Hibbertia hypericoides</i>	0.5	10
<i>Hibbertia subvaginata</i>	0.3	0.2
<i>Hovea pungens</i>	0.5	0.2
<i>Lasiopetalum drummondii</i>	0.4	0.5
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Lechenaultia hirsuta</i>	0.2	0.2
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.5	1
<i>Lomandra hastilis</i>	0.5	0.3
<i>Lyginia imberbis</i>	0.2	0.2
<i>Lysinema pentapetalum</i>	0.5	0.2
<i>Melaleuca leuropoma</i>	0.4	5
<i>Melaleuca</i> aff. <i>leuropoma</i>	0.5	0.3
<i>Mesomelaena pseudostygia</i>	0.4	0.5
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Nuytsia floribunda</i>	1.8	0.5
<i>Opercularia vaginata</i>	0.2	0.3
<i>Patersonia occidentalis</i>	0.4	0.5
<i>Pileanthus filifolius</i>	0.4	0.4
<i>Quoya verbascina</i>	0.5	0.3
<i>Schoenus brevisetis</i>	0.2	0.1
<i>Schoenus insolitus</i>	0.3	0.2
<i>Stenanthemum</i> aff. <i>notiale</i> subsp. <i>notiale</i>	0.3	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Stylidium rigidulum</i>	0.1	0.1

**PHOTOS**



Site Name: WE061  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 337389E 6746455N  
 Community: 8  
 Landform Type: Breakaway slope (other)  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: E  
 Soil Type: Clay Loam  
 Soil Colour: Pale Brown (other)  
 Rock Outcrop: Laterite, >2% bedrock exposed  
 CF Abundance: 20-50%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*, *Melaleuca concreta*

Lower Stratum 1: *Melaleuca tinkerii*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	1.5	6
<i>Amphipogon caricinus</i>	0.1	0.2
<i>Babingtonia camphorosmae</i>	0.1	0.3
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.2	0.3
<i>Borya sphaerocephala</i>	0.1	0.3
<i>Caladenia flava</i>	0.4	1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conostylis androstemma</i>	0.1	0.3
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Cryptandra myriantha</i>	0.3	0.2
<i>Dampiera lindleyi</i>	0.3	0.2
<i>Dodonaea ericoides</i>	0.3	0.2
<i>Ecdeiocolea monostachya</i>	0.5	5
<i>Gastrolobium plicatum</i>	1	8
<i>Glischrocaryon aureum</i>	0.2	0.4
<i>Hakea auriculata</i>	0.4	0.3
<i>Hakea incrassata</i>	0.4	0.3
<i>Hakea lissocarpha</i>	0.3	0.5
<i>Hibbertia crassifolia</i>	0.3	0.5



<i>Hibbertia hypericoides</i>	0.3	0.3
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.3
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	0.3	0.4
<i>Lepidosperma tenue</i>	0.4	0.2
<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)	0.2	0.3
<i>Melaleuca aspalathoides</i>	0.3	0.5
<i>Melaleuca concreta</i>	1.5	2
<i>Melaleuca marginata</i>	0.4	0.2
<i>Melaleuca tinkeri</i>	0.5	65
<i>Mesomelaena pseudostygia</i>	0.3	0.2
<i>Micromyrtus rogeri</i> (1)	0.5	3
<i>Mirbelia floribunda</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.4	0.2
<i>Patersonia graminea</i>	0.3	0.1
<i>Petrophile chrysantha</i>	1	3
<i>Schoenus armeria</i>	0.1	0.2
<i>Schoenus minutulus</i>	0.1	0.1
<i>Stylidium caricifolium</i>	0.3	0.5
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Tetratheca paucifolia</i>		
<i>Thysanotus</i> sp.	0.1	0.1

**PHOTOS**

Site Name: WE062  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 337509E 6746771N  
 Community: 7b  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Loam  
 Soil Colour: Grey/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus conveniens*  
 Mid Stratum 1: *Allocasuarina campestris*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuarria</i>	0.5	0.4
<i>Acacia dilatata</i>	0.3	0.2
<i>Allocasuarina campestris</i>	1.8	7
<i>Allocasuarina humilis</i>	0.5	0.4
<i>Amphipogon caricinus</i>	0.2	0.1
? <i>Amphipogon</i> sp.	0.2	0.1
<i>Babingtonia camphorosmae</i>	0.2	0.2
<i>Baeckea grandiflora</i>	0.3	0.2
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.4	3
<i>Banksia shuttleworthiana</i>	0.3	0.5
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.2	0.1
<i>Boronia cymosa</i>	0.3	1
<i>Calothamnus longissimus</i>	0.4	0.3
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.5	2
<i>Calothamnus sanguineus</i>	0.6	0.5
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conostylis androstemma</i>	0.2	0.2
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.2
<i>Cristonia biloba</i>	0.3	0.2

<i>Cryptandra myriantha</i>	0.2	0.1
<i>Cryptandra pungens</i>	0.5	0.2
<i>Daviesia daphnoides</i>	0.5	0.5
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.4	0.3
<i>Daviesia</i> ? <i>umbonata</i>	0.3	0.2
<i>Ecdeiocolea monostachya</i>	1	20
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.3	0.2
<i>Eucalyptus conveniens</i>	5	7
<i>Gastrolobium plicatum</i>	0.3	0.2
<i>Geleznovia verrucosa</i>	0.3	0.1
<i>Goodenia coerulea</i>	0.2	0.1
<i>Hakea circumalata</i>	1.5	3
<i>Hakea incrassata</i>	0.4	0.5
<i>Hakea trifurcata</i>	1	2
<i>Hibbertia crassifolia</i>	0.4	1
<i>Hibbertia hypericoides</i>	0.5	6
<i>Hypocalymma hirsutum</i>	0.2	0.2
<i>Laxmannia omnifertilis</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	1
<i>Lepidosperma</i> aff. <i>scabrum</i>	0.3	0.1
<i>Leptospermum oligandrum</i>	1	4
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.4	0.5
<i>Lobelia rhytidosperma</i>	0.2	0.1
<i>Melaleuca aspalathoides</i>	0.4	15
<i>Melaleuca</i> aff. <i>leuropoma</i>	1.6	5
<i>Mesomelaena pseudostygia</i>	0.4	2
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.2	0.1
<i>Petrophile brevifolia</i>	0.4	0.5
<i>Petrophile chrysantha</i>	0.5	0.4
<i>Petrophile macrostachya</i>	0.4	0.5
<i>Polianthion wichurae</i>	0.4	0.3
<i>Scaevola canescens</i>	0.2	0.3
<i>Schoenus brevisetis</i>	0.2	0.3
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Schoenus unispiculatus</i>	0.2	0.1
<i>Stenanthemum intricatum</i>	0.1	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Thryptomene</i> ? <i>racemulosa</i>	0.6	0.3
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.3	0.2
<i>Verticordia laciniata</i>	0.5	0.2
<i>Verticordia pennigera</i>	0.2	0.3

**PHOTOS**



Site Name: WE063  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 338049E 6747282N  
 Community: 8  
 Landform Type: Top of breakaway (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: N  
 Soil Type: Clay Loam  
 Soil Colour: Pale Brown (other)  
 Rock Outcrop: Laterite, >2% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*  
 Lower Stratum 1: *Ecdeiocolea monostachya*, *Hakea auriculata*, *Melaleuca aspalathoides*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia sessilis</i>	0.4	0.5
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.2	0.3
<i>Allocasuarina campestris</i>	1.5	30
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.3	1
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.3	0.3
<i>Boronia cymosa</i>	0.3	0.4
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Dampiera oligophylla</i>	0.2	0.1
<i>Dampiera spicigera</i>	0.2	0.2
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.4	3
<i>Dodonaea ericoides</i>	0.4	0.5
<i>Ecdeiocolea monostachya</i>	0.5	30
<i>Glischrocaryon aureum</i>	0.3	0.3
<i>Goodenia hassallii</i>	0.3	0.3
<i>Haemodorum discolor</i>	0.4	0.1
<i>Hakea auriculata</i>	0.5	8

<i>Hakea lissocarpa</i>	0.3	0.4
<i>Jacksonia foliosa</i>	0.3	0.5
<i>Lepidosperma tenue</i>	0.4	0.3
<i>Melaleuca aspalathoides</i>	0.3	4
<i>Opercularia vaginata</i>	0.1	0.1
<i>Patersonia graminea</i>	0.2	0.1
<i>Petrophile shuttleworthiana</i>	0.4	2
<i>Schoenus armeria</i>	0.1	0.2
<i>Thysanotus</i> sp.	0.1	0.1
<i>Thysanotus sparteus</i>	0.4	0.1

**PHOTOS**



Site Name: WE064  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 338393E 6747246N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Loam  
 Soil Colour: Yellow/ Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*, *Grevillea biformis* subsp. *biformis*

Lower Stratum 1: *Ecdeiocolea monostachya*, *Hakea circumalata*, *Hakea polyanthema*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuarina</i>	0.4	0.2
<i>Allocasuarina campestris</i>	2	6
<i>Allocasuarina microstachya</i>	0.4	0.5
? <i>Amphipogon</i> sp.	0.1	0.1
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.3	0.5
<i>Banksia shuttleworthiana</i>	0.3	0.3
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.2	0.3
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1.6	1.5
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Conospermum boreale</i> subsp. ? <i>ascendens</i>	0.3	0.2
<i>Conostylis androstemma</i>	0.2	0.1
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Dampiera oligophylla</i>	0.1	0.1
<i>Dampiera spicigera</i>	0.3	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.5	1
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.4	0.5
<i>Ecdeiocolea monostachya</i>	1	20
<i>Eremaea violacea</i> subsp. <i>violacea</i>	0.3	0.2

<i>Gompholobium muticum</i>	0.4	0.2
<i>Grevillea biformis</i> subsp. <i>biformis</i>	4	0.2
<i>Hakea circumalata</i>	1.3	20
<i>Hakea cygna</i> subsp. <i>cygna</i>	1	1.5
<i>Hakea incrassata</i>	0.4	0.2
<i>Hakea polyanthema</i>	1.3	2
<i>Hakea smilacifolia</i>		
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	1
<i>Lepidosperma</i> aff. <i>scabrum</i>	0.4	0.1
<i>Melaleuca leuropoma</i>	0.4	1
<i>Mesomelaena pseudostygia</i>	0.4	3
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.2	0.3
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.2	0.2
<i>Pileanthus filifolius</i>	0.5	1
<i>Scaevola canescens</i>	0.1	0.3
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.5	3
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.1	0.3
<i>Stylidium dichotomum</i>	0.1	0.1
<i>Thryptomene</i> ? <i>racemulosa</i>	0.4	0.2
<i>Thysanotus sparteus</i>	0.4	0.1
<i>Tricoryne humilis</i>	0.1	0.1

**PHOTOS**



Site Name: WE065  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 338705E 6747853N  
 Community: 8  
 Landform Type: Top of breakaway (other)  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Clay Loam  
 Soil Colour: Pale brown (other)  
 Rock Outcrop: Laterite, >2% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*  
 Lower Stratum 1: *Ecdeiocolea monostachya*, *Hakea auriculata*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia sessilis</i>	0.3	2
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.2	0.1
<i>Allocasuarina campestris</i>	1.5	10
<i>Allocasuarina microstachya</i>	0.4	3
? <i>Amphipogon</i> sp.	0.1	0.1
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.4	6
<i>Boronia cymosa</i>	0.2	0.5
<i>Borya sphaerocephala</i>	0.1	0.2
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.3
<i>Cassytha</i> ? <i>pomiformis</i>		0.1
<i>Caustis dioica</i>	0.2	0.2
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.1	0.1
<i>Cryptandra myriantha</i>	0.3	0.2
<i>Dampiera lindleyi</i>	0.3	0.3
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.4	4
<i>Daviesia</i> ? <i>umbonata</i>	0.3	0.3
<i>Dodonaea ericoides</i>	0.3	0.5
<i>Ecdeiocolea monostachya</i>	0.5	20

<i>Glischrocaryon aureum</i>	0.4	2
<i>Grevillea biternata</i>	0.5	0.5
<i>Haemodorum discolor</i>	0.3	0.1
<i>Hakea auriculata</i>	0.5	15
<i>Hakea incrassata</i>	0.4	1
<i>Hibbertia hypericoides</i>	0.3	1
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.3	0.4
<i>Isopogon divergens</i>	0.5	0.5
<i>Jacksonia foliosa</i>	0.3	0.5
<i>Jacksonia restioides</i>	0.3	0.2
<i>Melaleuca aspalathoides</i>	0.3	1
<i>Melaleuca radula</i>	0.5	0.5
<i>Mesomelaena pseudostygia</i>	0.3	0.3
<i>Neurachne alopecuroidea</i>	0.1	0.3
<i>Opercularia vaginata</i>	0.2	1
<i>Patersonia graminea</i>	0.3	0.1
<i>Petrophile shuttleworthiana</i>	0.4	1
<i>Schoenus armeria</i>	0.1	0.3
<i>Schoenus brevisetis</i>	0.1	0.2
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Thysanotus</i> sp.	0.1	0.1
<i>Tricoryne humilis</i>	0.2	0.1

**PHOTOS**





Site Name: WE066  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 338572E 6748746N  
 Community: 13b  
 Landform Type: Lower Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: N  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia barbinervis</i> subsp. <i>borealis</i>	0.3	0.1
<i>Acacia fagonioides</i>	0.2	0.3
<i>Acacia lasiocarpa</i> var. <i>?bracteolata</i>	0.6	0.3
<i>Acacia stenoptera</i>	0.4	0.2
<i>Allocasuarina humilis</i>	0.5	2
<i>Amphipogon turbinatus</i>	0.3	0.4
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.2	0.2
<i>Babingtonia camphorosmae</i>	0.3	0.4
<i>Banksia carlinoides</i>	0.4	0.5
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.3
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.8	1
<i>Calothamnus sanguineus</i>	1	6
<i>Calytrix sapphirina</i>	0.4	0.2
<i>Cassytha ?pomiformis</i>		0.3
<i>Caustis dioica</i>	0.2	0.3
<i>Chordifex sinuosus</i>	0.3	0.2
<i>Comesperma calymega</i>	0.1	0.1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	1	2
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.1	0.5

<i>Conostylis candicans</i>	0.2	0.3
<i>Conostylis canteriata</i>	0.1	0.1
<i>Cristonia biloba</i>	0.3	0.2
<i>Dampiera oligophylla</i>	0.4	0.5
<i>Darwinia speciosa</i>	0.2	0.2
<i>Daviesia nudiflora</i>	0.3	0.2
<i>Desmocladus semiplanus</i>	0.2	0.1
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.5	3
<i>Gompholobium tomentosum</i>	0.4	1
<i>Goodenia coerulea</i>	0.3	0.2
<i>Hakea costata</i>	0.8	3
<i>Hakea lissocarpha</i>	0.5	1
<i>Hakea trifurcata</i>	1	2.5
<i>Harperia lateriflora</i>	0.1	0.2
<i>Hibbertia crassifolia</i>	0.2	0.3
<i>Hibbertia hypericoides</i>	0.5	4
<i>Hypocalymma hirsutum</i>	0.2	0.3
<i>Isotropis cuneifolia</i>	0.1	0.1
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Lyginia imberbis</i>	0.3	0.2
<i>Melaleuca leuropoma</i>	0.5	5
<i>Mesomelaena pseudostygia</i>	0.4	4
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.2
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Petrophile scabriuscula</i>	1	7
<i>Ptilotus manglesii</i>	0.1	0.2
<i>Scaevola canescens</i>	0.2	0.3
<i>Schoenus brevisetis</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Schoenus curvifolius</i>	0.3	0.2
<i>Schoenus insolitus</i>	0.3	0.2
<i>Schoenus unispiculatus</i>	0.2	0.1
<i>Scholtzia laxiflora</i>	0.5	8
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.1	0.2
<i>Stylidium crossocephalum</i>	0.1	0.1
<i>Tricoryne elatior</i>	0.3	0.3
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.2	0.2

**PHOTOS**



Site Name: WE067  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 21/11/2011  
 GPS Location: GDA94 (Zone 50) 334912E 6747280N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Sand  
 Soil Colour: Yellow  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*, *Grevillea biformis* subsp. *biformis*

Lower Stratum 1: *Banksia carlinoides*, *Hakea polyanthema*, *Melaleuca leuropoma*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuaria</i>	0.6	0.5
<i>Allocasuarina campestris</i>	1.8	2
<i>Allocasuarina humilis</i>	0.3	0.2
<i>Allocasuarina microstachya</i>	0.2	0.1
<i>Astroloma microdonta</i>	0.1	0.1
<i>Astroloma pedicellatum</i> ms	0.3	0.2
<i>Baeckea grandiflora</i>	0.2	0.2
<i>Banksia carlinoides</i>	0.6	5
<i>Banksia fraseri</i> var. <i>?fraseri</i>	0.4	0.5
<i>Banksia shuttleworthiana</i>	0.3	0.5
<i>Calothamnus sanguineus</i>	0.6	0.5
<i>Calytrix strigosa</i>	0.1	0.4
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.2
<i>Caustis dioica</i>	0.3	0.4
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.3	0.1
<i>Conostylis androstemma</i>	0.1	0.1
<i>Dampiera oligophylla</i>	0.1	0.1
<i>Darwinia speciosa</i>	0.2	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.4	1
<i>Daviesia nudiflora</i>	0.3	0.5

<i>Ecdeiocola monostachya</i>	1	8
<i>Grevillea biformis</i> subsp. <i>biformis</i>	2	1
<i>Hakea circumalata</i>	0.5	3
<i>Hakea cygna</i> subsp. <i>cygna</i>	0.5	0.5
<i>Hakea incrassata</i>	0.4	0.3
<i>Hakea polyanthema</i>	0.6	10
<i>Hibbertia crassifolia</i>	0.3	0.4
<i>Hibbertia hypericoides</i>	0.4	1
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Lasiopetalum drummondii</i>	0.2	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.5
<i>Lepidosperma</i> aff. <i>scabrum</i>	0.3	0.1
<i>Leptospermum oligandrum</i>	0.6	3
<i>Leptospermum spinescens</i>	0.3	0.2
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.4	0.3
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	0.2	0.1
<i>Lysinema pentapetalum</i>	0.8	0.3
<i>Melaleuca leuropoma</i>	0.5	8
<i>Mesomelaena pseudostygia</i>	0.4	4
<i>Monotaxis bracteata</i>	0.2	0.1
<i>Petrophile macrostachya</i>	0.4	0.2
<i>Petrophile scabriuscula</i>	0.5	0.3
<i>Pileanthus filifolius</i>	0.4	0.5
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.3	0.4
<i>Stylidium crossocephalum</i>	0.1	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Tricoryne elatior</i>	0.3	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.4	0.3
<i>Verticordia grandis</i>	1	1

**PHOTOS**





Site Name: WE068  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 23/11/2011  
 GPS Location: GDA94 (Zone 50) 335103E 6747272N  
 Community: 8  
 Landform Type: Upper Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: S  
 Soil Type: Clay Loam  
 Soil Colour: Yellow/ Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus conveniens*  
 Mid Stratum 1: *Allocasuarina campestris*  
 Lower Stratum 1: *Ecdeiocolea monostachya, Hakea circumalata, Melaleuca aspalathoides*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.3	0.3
<i>Allocasuarina campestris</i>	2	15
? <i>Amphipogon</i> sp.	0.1	0.1
<i>Astroloma pedicellatum</i> ms	0.5	0.3
<i>Baeckea grandiflora</i>	0.3	0.1
<i>Banksia carlinoides</i>	0.5	0.3
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.3	0.5
<i>Banksia shuttleworthiana</i>	0.4	0.5
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.3	0.2
<i>Boronia cymosa</i>	0.1	0.1
<i>Calothamnus longissimus</i>	0.4	0.3
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	2
<i>Conospermum boreale</i> subsp. ? <i>ascendens</i>	0.4	0.1
<i>Dampiera oligophylla</i>	0.3	0.1
<i>Dampiera spicigera</i>	0.1	0.1
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.3	0.4
<i>Dianella revoluta</i>	0.5	0.2

<i>Ecdeiocola monostachya</i>	1	20
<i>Eucalyptus conveniens</i>	3	10
<i>Gompholobium muticum</i>	0.3	0.1
<i>Haemodorum discolor</i>	0.4	0.1
<i>Hakea auriculata</i>	0.4	0.5
<i>Hakea circumalata</i>	1.6	30
<i>Hibbertia hypericoides</i>	0.3	0.5
<i>Jacksonia foliosa</i>	0.3	0.2
<i>Jacksonia macrocalyx</i>	0.3	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.5
<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)	0.2	0.3
<i>Melaleuca aspalathoides</i>	0.3	2
<i>Melaleuca radula</i>	1.6	1
<i>Mesomelaena preissii</i>	0.2	0.1
<i>Mesomelaena pseudostygia</i>	0.3	0.3
<i>Micromyrtus rogeri</i> (1)	0.3	0.4
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Patersonia graminea</i>	0.3	0.1
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Santalum acuminatum</i>	1.8	0.5
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Stylidium drummondianum</i> (3)	0.1	0.1

**PHOTOS**



Site Name: WE069  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 23/11/2011  
 GPS Location: GDA94 (Zone 50) 335313E 6747286N  
 Community: 8  
 Landform Type: Top of breakaway (other)  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: Laterite, 2-10% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*  
 Lower Stratum 1: *Ecdeiocolea monostachya*, *Melaleuca aspalathoides*, *Petrophile shuttleworthiana*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuarina</i>	1	0.5
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.2	0.1
<i>Allocasuarina campestris</i>	2	30
<i>Banksia carlinoides</i>	0.5	1
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.3	1
<i>Banksia shuttleworthiana</i>	0.4	0.5
<i>Boronia cymosa</i>	0.1	0.1
<i>Cassytha flava</i>		0.1
<i>Dampiera lindleyi</i>	0.3	0.5
<i>Dampiera spicigera</i>	0.1	0.1
<i>Daviesia daphnoides</i>	0.4	0.3
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.3	0.5
<i>Dodonaea ericoides</i>	0.3	0.1
<i>Ecdeiocolea monostachya</i>	0.5	20
<i>Hakea auriculata</i>	1	4
<i>Hakea circumalata</i>	1	0.5

<i>Hakea incrassata</i>	0.3	0.3
<i>Hakea lissocarpha</i>	0.4	0.3
<i>Hibbertia hypericoides</i>	0.3	0.5
<i>Isopogon divergens</i>	0.4	0.3
<i>Jacksonia foliosa</i>	0.4	0.5
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.2
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.1	0.2
<i>Melaleuca aspalathoides</i>	0.3	10
<i>Mesomelaena preissii</i>	0.3	0.1
<i>Mesomelaena pseudostygia</i>	0.4	0.5
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Patersonia graminea</i>	0.3	0.1
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Petrophile shuttleworthiana</i>	1	6
<i>Pimelea sulphurea</i>	0.4	0.1
<i>Schoenus armeria</i>	0.1	0.2
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Thysanotus sparteus</i>	0.3	0.1
<i>Verticordia chrysanthella</i>	0.3	0.2

**PHOTOS**

Site Name: WE070  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 22/11/2011  
 GPS Location: GDA94 (Zone 50) 335329E 6747424N  
 Community: 9  
 Landform Type: Breakaway slope (other)  
 Slope Class: Moderately Inclined (10 degrees)  
 Aspect: N  
 Soil Type: Clay Loam  
 Soil Colour: Pinky/ Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: *Allocasuarina campestris*, *Melaleuca tinkerii*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	1.5	20
<i>Astroloma pedicellatum</i> ms	0.5	0.5
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.3	0.3
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Gastrolobium plicatum</i>	0.6	3
<i>Glischrocaryon aureum</i>	0.3	0.2
<i>Grevillea biternata</i>	0.4	0.5
<i>Guichenotia angustifolia</i>	0.2	0.1
<i>Hakea lissocarpha</i>	0.3	0.2
<i>Hibbertia hypericoides</i>	0.2	0.2
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.2	0.1
<i>Jacksonia angulata</i>	0.3	0.4
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.2
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	0.3	0.3
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.1	0.1
<i>Lepidosperma tenue</i>	0.3	0.3



<i>Leucopogon</i> sp. Burma Road (M. Hislop 2032)	1	0.5
<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)	0.2	0.3
<i>Melaleuca aspalathoides</i>	0.3	0.4
<i>Melaleuca concreta</i>	1.5	1
<i>Melaleuca</i> aff. <i>leuropoma</i>	0.5	0.5
<i>Melaleuca marginata</i>	0.4	6
<i>Melaleuca tinkeri</i>	0.4	8
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Thryptomene ?racemulosa</i>	1	10

**PHOTOS**

Site Name: WE071  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 23/11/2011  
 GPS Location: GDA94 (Zone 50) 333609E 6746569N  
 Community: 3  
 Landform Type: Flat  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: N  
 Soil Type: Clay Loam  
 Soil Colour: Pink/ Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**Upper Stratum 1: *Eucalyptus accedens*Mid Stratum 1: *Melaleuca concreta*, *Melaleuca marginata***SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia ericksoniae</i>	0.5	2
<i>Allocasuarina campestris</i>	2	3
<i>Baeckea crispiflora</i> var. <i>tenuior</i>	0.2	0.1
<i>Cassytha ?racemosa</i>		0.1
<i>Comesperma volubile</i>		0.2
<i>Dampiera alata</i>	0.2	0.1
<i>Dichopogon preissii</i>	0.4	0.1
<i>Eucalyptus accedens</i>	12	25
<i>Gastrolobium bennettsianum</i>	0.5	3
<i>Glischrocaryon aureum</i>	0.3	0.2
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	0.3	0.5
<i>Melaleuca acutifolia</i>	1.3	1
<i>Melaleuca concreta</i>	2	25
<i>Melaleuca marginata</i>	1	20
<i>Melaleuca radula</i>	1.4	1
<i>Olearia ?dampieri</i>	1.2	0.2
<i>Petrophile chrysantha</i>	0.4	0.2
<i>Scaevola virgata</i>	0.1	0.1

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<i>Stylidium torticarpum</i> (3)	0.1	0.1
<i>Trichocline spathulata</i>	0.1	0.1

**PHOTOS**



Site Name: WE072  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 23/11/2011  
 GPS Location: GDA94 (Zone 50) 335254E 6748539N  
 Community: 11  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Loam  
 Soil Colour: Yellow/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: >5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*, *Grevillea biformis* subsp. *biformis*  
 Lower Stratum 1: *Ecdeiocolea monostachya*, *Melaleuca aspalathoides*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Allocasuarina campestris</i>	1.5	4
<i>Amphipogon caricinus</i>	0.2	0.4
<i>Astroloma pedicellatum</i> ms	0.1	0.1
<i>Boronia cymosa</i>	0.1	0.1
<i>Borya sphaerocephala</i>	0.1	0.5
<i>Conostylis androstemma</i>	0.2	0.2
<i>Dampiera spicigera</i>	0.2	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.4	0.5
<i>Ecdeiocolea monostachya</i>	0.5	10
<i>Goodenia coerulea</i>	0.2	0.1
<i>Grevillea biformis</i> subsp. <i>biformis</i>	1.8	1.5
<i>Haemodorum discolor</i>	0.3	0.3
<i>Hakea circumalata</i>	0.6	0.5
<i>Hakea incrassata</i>	0.4	0.3
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	5
<i>Melaleuca aspalathoides</i>	0.3	20
<i>Mesomelaena preissii</i>	0.3	1
<i>Mesomelaena pseudostygia</i>	0.4	5
<i>Neurachne alopecuroidea</i>	0.1	0.1

<i>Opercularia vaginata</i>	0.2	3
<i>Patersonia graminea</i>	0.3	0.3
<i>Pileanthus filifolius</i>	0.3	0.2
<i>Ptilotus declinatus</i>	0.1	0.1
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	8
<i>Scholtzia laxiflora</i>	0.4	1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.1	0.1
<i>Tricoryne humilis</i>	0.1	0.1

**PHOTOS**

Site Name: WE073  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 23/11/2011  
 GPS Location: GDA94 (Zone 50) 337474E 6748518N  
 Community: 13b  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus todtiana*

Lower Stratum 1: *Allocasuarina humilis*, *Calothamnus sanguineus*, *Scholtzia laxiflora*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia blakelyi</i>	2.5	2
<i>Acacia dilatata</i>	0.2	1
<i>Allocasuarina humilis</i>	1.5	6
<i>Babingtonia camphorosmae</i>	0.2	1
<i>Banksia bipinnatifida</i> subsp. <i>multifida</i>	0.2	0.3
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.5
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1.6	0.2
<i>Calothamnus sanguineus</i>	1.5	10
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.4
<i>Caustis dioica</i>	0.3	0.5
<i>Chordifex sinuosus</i>	0.2	0.4
<i>Conostylis candicans</i>	0.3	1
<i>Conostylis canteriata</i>	0.1	0.1
<i>Desmocladius semiplanus</i>	0.1	0.2
<i>Diplopeltis huegelii</i> subsp. <i>lehmannii</i>	0.3	0.3
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.6	6
<i>Eucalyptus todtiana</i>	5	5
<i>Gompholobium tomentosum</i>	0.3	0.2
<i>Hakea lissocarpha</i>	0.6	1



<i>Hakea trifurcata</i>	1	2
<i>Hibbertia hypericoides</i>	1	6
<i>Hypocalymma hirsutum</i>	0.1	0.1
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	0.3	0.2
<i>Lomandra hastilis</i>	1	0.4
<i>Lyginia imberbis</i>	0.3	0.2
<i>Melaleuca leuropoma</i>	0.4	8
<i>Mesomelaena pseudostygia</i>	0.4	0.3
<i>Mesomelaena tetragona</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.2	0.3
<i>Patersonia occidentalis</i>	0.3	0.3
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Schoenus curvifolius</i>	0.2	0.1
<i>Scholtzia laxiflora</i>	0.5	6
<i>Stachystemon axillaris</i>	1	0.4
<i>Stenanthemum intricatum</i>	0.1	0.1
<i>Verticordia grandis</i>	1.2	0.2

**PHOTOS**

Site Name: WE074  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 24/11/2011  
 GPS Location: GDA94 (Zone 50) 336539E 6746129N  
 Community: 7b  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: Laterite, >2% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: *Banksia carlinoides*, *Melaleuca aspalathoides*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuaria</i>	0.4	0.3
<i>Acacia fagonioides</i>	0.2	0.2
<i>Allocasuarina campestris</i>	0.8	0.5
<i>Allocasuarina humilis</i>	0.4	0.5
<i>Astroloma microdonta</i>	0.1	0.1
<i>Baeckea grandiflora</i>	0.3	0.1
<i>Banksia carlinoides</i>	0.5	20
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.3
<i>Banksia fraseri</i> var. <i>?fraseri</i>	0.3	1
<i>Banksia shuttleworthiana</i>	0.4	6
<i>Beaufortia elegans</i>	0.5	0.2
<i>Boronia cymosa</i>	0.1	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	1.5
<i>Calothamnus sanguineus</i>	0.3	0.5
<i>Calytrix flavescens</i>	0.2	0.2
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.2
<i>Cassytha ?pomiformis</i>		0.3
<i>Caustis dioica</i>	0.3	0.2

<i>Chordifex sinuosus</i>	0.3	0.2
<i>Conostylis androstemma</i>	0.2	0.4
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Cryptandra myriantha</i>	0.4	0.1
<i>Dampiera lindleyi</i>	0.2	0.1
<i>Darwinia speciosa</i>	0.2	0.1
<i>Daviesia daphnoides</i>	0.5	1
<i>Daviesia pedunculata</i>	0.2	0.2
<i>Daviesia ?umbonata</i>	0.2	0.1
<i>Ecdeiocolea monostachya</i>	0.4	10
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.4	1
<i>Gastrolobium plicatum</i>	0.3	0.2
<i>Goodenia hassallii</i>	0.2	0.5
<i>Hakea auriculata</i>	0.5	1
<i>Hakea circumalata</i>	0.5	3
<i>Hakea incrassata</i>	0.4	5
<i>Hakea lissocarpha</i>	0.3	0.5
<i>Hakea stenocarpa</i>	0.3	1
<i>Hakea trifurcata</i>	0.5	0.4
<i>Halgania</i> sp. Wongan Hills (K.F. Kenneally 2393)	0.2	0.3
<i>Hibbertia crassifolia</i>	0.3	2
<i>Hibbertia hypericoides</i>	0.3	1
<i>Hypocalymma hirsutum</i>	0.2	0.2
<i>Isopogon divergens</i>	0.4	2
<i>Isotoma hypocrateriformis</i>	0.1	0.1
<i>Jacksonia foliosa</i>	0.3	0.2
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.2
<i>Leptospermum spinescens</i>	0.3	0.2
<i>Melaleuca aspalathoides</i>	0.3	15
<i>Mesomelaena pseudostygia</i>	0.3	0.2
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Petrophile shuttleworthiana</i>	0.5	0.5
<i>Pileanthus filifolius</i>	0.3	0.4
<i>Schoenus brevisetis</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stylidium crossocephalum</i>	0.1	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Stylidium stenosepalum</i>	0.1	0.1
<i>Synaphea aephynsa</i> (3)	0.2	0.1
<i>Verticordia pennigera</i>	0.1	0.1

**PHOTOS**



Site Name: WE075  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 24/11/2011  
 GPS Location: GDA94 (Zone 50) 337346E 6744769N  
 Community: 13b  
 Landform Type: Flat  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: *Calothamnus quadrifidus* subsp. *angustifolius*, *Jacksonia hakeoides*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia blakelyi</i>	1.8	2
<i>Acacia lasiocarpa</i> var. <i>?bracteolata</i>	1	5
<i>Actinotus leucocephalus</i>	0.1	0.1
<i>Allocasuarina humilis</i>	0.6	0.5
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.1	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1.5	10
<i>Calothamnus sanguineus</i>	0.4	0.5
<i>Caustis dioica</i>	0.3	0.4
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.2	0.2
<i>Desmocladus lateriticus</i>	0.2	2
<i>Desmocladus parthenicus</i>	0.2	0.2
<i>Gompholobium tomentosum</i>	0.4	0.2
<i>Hakea polyanthema</i>	1	0.5
<i>Hibbertia hypericoides</i>	0.4	3
<i>Jacksonia hakeoides</i>	1	65
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.4
<i>Lobelia rhytidosperra</i>	0.3	0.1
<i>Mesomelaena pseudostygia</i>	0.3	0.2
<i>Verticordia densiflora</i> var. <i>densiflora</i>	1	2

**PHOTOS**





Site Name: WE076  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 24/11/2011  
 GPS Location: GDA94 (Zone 50) 334635E 6748026N  
 Community: 9  
 Landform Type: Flat  
 Slope Class: Level (0 degrees)  
 Soil Type: Clay  
 Soil Colour: Grey/White  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*, *Melaleuca concreta*

Lower Stratum 1: *Leucopogon* sp. Yandanooka (M. Hislop 2507), *Melaleuca tinkeri*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia ?idiomorpha</i>	0.3	0.3
<i>Allocasuarina campestris</i>	1.2	1
<i>Amphipogon caricinus</i>	0.1	0.1
<i>Astroloma pedicellatum</i> ms	0.4	0.2
<i>Babingtonia camphorosmae</i>	0.2	5
<i>Borya sphaerocephala</i>	0.1	0.2
<i>Calothamnus longissimus</i>	0.2	0.2
<i>Calytrix flavescens</i>	0.2	0.4
<i>Comesperma volubile</i>		0.1
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.3	0.4
<i>Dodonaea ericoides</i>	0.2	0.2
<i>Glischrocaryon aureum</i>	0.3	0.1
<i>Hakea circumalata</i>	0.3	0.2
<i>Hakea incrassata</i>	0.3	0.5
<i>Hakea spathulata</i>	0.2	2
<i>Hibbertia hypericoides</i>	0.3	0.5
<i>Lepidosperma</i> aff. <i>scabrum</i>	0.1	0.1
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)	0.3	0.2
<i>Lepidosperma tenue</i>	0.4	0.5

<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)	0.2	15
<i>Melaleuca aspalathoides</i>	0.2	0.2
<i>Melaleuca concreta</i>	1.6	9
<i>Melaleuca radula</i>	0.4	0.5
<i>Melaleuca tinkeri</i>	0.4	20
<i>Micromyrtus rogeri</i> (1)	0.4	5
<i>Mirbelia floribunda</i>	0.1	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Petrophile chrysantha</i>	0.5	2
<i>Schoenus unispiculatus</i>	0.1	0.1
<i>Stylidium torticarpum</i> (3)	0.1	0.4

**PHOTOS**

Site Name: WE077  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 24/11/2011  
 GPS Location: GDA94 (Zone 50) 334933E 6748093N  
 Community: 7a  
 Landform Type: Breakaway - lower slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: S  
 Soil Type: Clay Loam  
 Soil Colour: Grey/Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*

Lower Stratum 1: *Ecdeiocolea monostachya*, *Melaleuca aspalathoides*, *Melaleuca tinkerii*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	1.6	50
<i>Allocasuarina microstachya</i>	0.3	0.5
<i>Amphipogon caricinus</i>	0.1	0.3
<i>Astroloma pedicellatum</i> ms	0.3	0.4
<i>Babingtonia camphorosmae</i>	0.2	0.5
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.4	0.5
<i>Boronia cymosa</i>	0.1	0.2
<i>Borya sphaerocephala</i>	0.1	0.2
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.4	0.3
<i>Calytrix depressa</i>	0.2	0.1
<i>Calytrix fraseri</i>	0.2	0.1
<i>Cassytha flava</i>		0.1
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.2	0.1
<i>Dampiera lindleyi</i>	0.2	0.1
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.4	0.5
<i>Ecdeiocolea monostachya</i>	0.5	5
<i>Eremaea beaufortii</i> var. <i>microphylla</i>	0.4	0.5
<i>Geleznowia verrucosa</i>	0.2	0.1
<i>Hakea incrassata</i>	0.4	0.5

<i>Hakea lissocarpha</i>	0.2	0.2
<i>Hakea spathulata</i>	0.2	1
<i>Hibbertia crassifolia</i>	0.3	0.5
<i>Hibbertia hypericoides</i>	0.4	4
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.2
<i>Lepidosperma tenue</i>	0.3	0.2
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.5	0.2
<i>Melaleuca aspalathoides</i>	0.3	8
<i>Melaleuca tinkerii</i>	0.4	5
<i>Mesomelaena pseudostygia</i>	0.3	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Patersonia graminea</i>	0.2	0.1
<i>Petrophile chrysantha</i>	0.5	0.5
<i>Schoenus brevisetis</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Schoenus unispiculatus</i>	0.1	0.2
<i>Stylidium dichotomum</i>	0.1	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.3	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Thryptomene ?racemulosa</i>	0.3	0.3
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.5	0.2
<i>Verticordia pennigera</i>	0.1	0.1

**PHOTOS**



Site Name: WE078  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 24/11/2011  
 GPS Location: GDA94 (Zone 50) 334988E 6748323N  
 Community: 10  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: *Ecdeiocolea monostachya, Hakea polyanthema, Melaleuca leuropoma*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	0.4	0.3
<i>Allocasuarina microstachya</i>	0.4	1
<i>Astroloma microdonta</i>	0.1	0.1
<i>Babingtonia camphorosmae</i>	0.3	0.4
<i>Banksia shuttleworthiana</i>	0.5	3
<i>Calytrix flavescens</i>	0.3	3
<i>Calytrix strigosa</i>	0.1	0.2
<i>Cassytha flava</i>		0.1
<i>Caustis dioica</i>	0.2	0.5
<i>Chordifex sinuosus</i>	0.3	0.2
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.2	0.1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.4	0.5
<i>Dampiera oligophylla</i>	0.4	0.2
<i>Dampiera spicigera</i>	0.3	0.1
<i>Darwinia speciosa</i>	0.1	0.1
<i>Daviesia pedunculata</i>	0.3	0.2
<i>Ecdeiocolea monostachya</i>	0.5	15
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.4	3
<i>Gastrolobium plicatum</i>	0.2	0.4
<i>Geleznowia verrucosa</i>	0.1	0.1



<i>Goodenia coerulea</i>	0.2	0.1
<i>Haemodorum spicatum</i>		
<i>Hakea auriculata</i>	0.5	2
<i>Hakea circumalata</i>	0.5	1
<i>Hakea cygna</i> subsp. <i>cygna</i>	0.4	0.3
<i>Hakea incrassata</i>	0.3	0.4
<i>Hakea lissocarpa</i>	0.3	0.2
<i>Hakea polyanthema</i>	0.6	4
<i>Hakea spathulata</i>	0.3	0.3
<i>Hibbertia crassifolia</i>	0.3	0.6
<i>Hibbertia hypericoides</i>	0.4	1
<i>Hypocalymma hirsutum</i>	0.1	0.1
<i>Jacksonia nutans</i>	0.6	1
<i>Leptospermum oligandrum</i>	0.3	0.1
<i>Melaleuca aspalathoides</i>	0.3	0.3
<i>Melaleuca leuropoma</i>	0.4	15
<i>Mesomelaena pseudostygia</i>	0.3	0.5
<i>Mesomelaena tetragona</i>	0.3	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Petrophile brevifolia</i>	0.2	0.2
<i>Pileanthus filifolius</i>	0.3	1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.5	2.5
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.1	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>	0.4	0.4
<i>Tricoryne elatior</i>	0.2	0.1

**PHOTOS**



Site Name: WE079  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/11/2011  
 GPS Location: GDA94 (Zone 50) 336570E 6748608N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: >5years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: *Melaleuca aspalathoides, Melaleuca leuropoma*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuaria</i>	0.3	0.3
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.2	0.2
<i>Allocasuarina microstachya</i>	0.3	2
<i>Amphipogon caricinus</i>	0.1	0.1
<i>Amphipogon turbinatus</i>	0.2	0.1
<i>Babingtonia camphorosmae</i>	0.2	0.3
<i>Banksia carlinoides</i>	0.4	1
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.4	0.5
<i>Banksia shuttleworthiana</i>	0.3	3
<i>Boronia cymosa</i>	0.2	0.2
<i>Calytrix strigosa</i>	0.1	0.1
<i>Cassytha</i> ? <i>pomiformis</i>		0.2
<i>Caustis dioica</i>	0.3	0.3
<i>Conostylis androstemma</i>	0.1	0.3
<i>Dampiera oligophylla</i>	0.4	0.3
<i>Daviesia pedunculata</i>	0.2	0.3
<i>Ecdeiocolea monostachya</i>	0.5	4
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.4	1
<i>Gastrolobium plicatum</i>	0.3	0.2
<i>Geleznowia verrucosa</i>	0.2	0.1

<i>Goodenia coerulea</i>	0.2	0.1
<i>Hakea auriculata</i>	0.5	1
<i>Hakea incrassata</i>	0.4	2
<i>Hakea polyanthema</i>	0.6	2
<i>Hakea spathulata</i>	0.3	3
<i>Hakea stenocarpa</i>	0.2	0.1
<i>Hibbertia crassifolia</i>	0.3	0.6
<i>Hibbertia hypericoides</i>	0.4	5
<i>Hypocalymma hirsutum</i>	0.2	0.2
<i>Isopogon divergens</i>	0.3	0.5
<i>Jacksonia restioides</i>	0.3	0.2
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.2
<i>Lepidosperma</i> aff. <i>scabrum</i>	0.2	0.1
<i>Leptospermum oligandrum</i>	0.6	2
<i>Melaleuca aspalathoides</i>	0.3	20
<i>Melaleuca leuropoma</i>	0.4	5
<i>Mesomelaena pseudostygia</i>	0.4	0.5
<i>Monotaxis bracteata</i>	0.2	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.2
<i>Paracaleana dixonii</i> (T)		
<i>Patersonia graminea</i>	0.3	0.1
<i>Petrophile brevifolia</i>	0.4	0.3
<i>Pileanthus filifolius</i>	0.2	0.4
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus brevisetis</i>	0.2	0.2
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Scholtzia laxiflora</i>	0.5	1
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.1	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.1	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>	0.3	0.2
<i>Tricoryne humilis</i>	0.1	0.1
<i>Verticordia pennigera</i>	0.2	0.1

**PHOTOS**



Site Name: WE080  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 24/11/2011  
 GPS Location: GDA94 (Zone 50) 337009E 6748510N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: N  
 Soil Type: Sandy Loam  
 Soil Colour: Yellow  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: >5years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*, *Grevillea biformis* subsp. *biformis*

Lower Stratum 1: *Ecdeiocolea monostachya*, *Melaleuca aspalathoides*, *Mesomelaena preissii*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuaria</i>	0.3	0.3
<i>Allocasuarina campestris</i>	1.5	10
<i>Amphipogon turbinatus</i>	0.1	0.1
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.2	0.2
<i>Boronia cymosa</i>	0.2	0.1
<i>Borya sphaerocephala</i>	0.1	0.2
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.3	0.2
<i>Dampiera oligophylla</i>	0.4	0.2
<i>Dampiera spicigera</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	20
<i>Gnephosis tenuissima</i>	0.1	3
<i>Grevillea biformis</i> subsp. <i>biformis</i>	1.8	0.5
<i>Grevillea eriostachya</i>	1.5	1
<i>Haemodorum discolor</i>	0.3	0.1
<i>Hakea circumalata</i>	0.6	2
<i>Jacksonia macrocalyx</i>	0.3	0.5
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	5
<i>Melaleuca aspalathoides</i>	0.3	5
<i>Mesomelaena preissii</i>	0.4	6



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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.2	2
<i>Opercularia vaginata</i>	0.2	2
<i>Patersonia graminea</i>	0.2	0.2
<i>Petrophile brevifolia</i>	0.2	0.3
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	3
<i>Thryptomene ?racemulosa</i>	0.2	0.1
<i>Xanthorrhoea drummondii</i>	1.5	2

**PHOTOS**

Site Name: WE081  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 24/11/2011  
 GPS Location: GDA94 (Zone 50) 337861E 6746125N  
 Community: 8  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: E  
 Soil Type: Clay Loam  
 Soil Colour: Pale Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: >90%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus conveniens*  
 Mid Stratum 1: *Allocasuarina campestris*  
 Lower Stratum 1: *Calothamnus longissimus*, *Ecdeiocolea monostachya*, *Hakea auriculata*,  
*Melaleuca aspalathoides*, *Petrophile shuttleworthiana*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	2	2
<i>Allocasuarina humilis</i>	0.4	0.3
? <i>Amphipogon</i> sp.	0.1	0.1
<i>Baeckea grandiflora</i>	0.3	0.1
<i>Banksia fraseri</i> var. ? <i>fraseri</i>	0.4	4
<i>Banksia shuttleworthiana</i>	0.4	0.5
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.3	0.2
<i>Boronia cymosa</i>	0.1	0.1
<i>Calothamnus longissimus</i>	0.5	10
<i>Conostylis androstemma</i>	0.2	0.5
<i>Cryptandra myriantha</i>	0.3	0.1
<i>Dampiera spicigera</i>	0.3	0.1
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.3	0.4
<i>Diplolaena eneabbensis</i>	0.2	0.2

<i>Ecdeiocolea monostachya</i>	0.5	15
<i>Eucalyptus conveniens</i>	4	20
<i>Gastrolobium spinosum</i>	0.5	0.3
<i>Geleznovia verrucosa</i>	0.3	0.1
<i>Glischrocaryon aureum</i>	0.3	0.2
<i>Goodenia hassallii</i>	0.2	0.1
<i>Guichenotia micrantha</i>	0.4	0.1
<i>Haemodorum discolor</i>	0.3	0.1
<i>Hakea auriculata</i>	1	5
<i>Hakea circumalata</i>	0.6	3
<i>Hakea lissocarpha</i>	0.4	0.5
<i>Halgania</i> sp. Wongan Hills (K.F. Kenneally 2393)	0.2	0.5
<i>Hibbertia crassifolia</i>	0.3	0.4
<i>Hibbertia hypericoides</i>	0.4	4
<i>Hibbertia spicata</i> subsp. <i>spicata</i>	0.4	4
<i>Isopogon divergens</i>	0.3	0.5
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	1
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.1
<i>Lepidosperma tenue</i>	0.3	0.2
<i>Melaleuca aspalathoides</i>	0.3	10
<i>Melaleuca radula</i>	1	3
<i>Mesomelaena pseudostygia</i>	0.3	0.4
<i>Micromyrtus rogeri</i> (1)	0.4	1
<i>Neurachne alopecuroidea</i>	0.3	0.1
<i>Patersonia graminea</i>	0.3	0.1
<i>Petrophile shuttleworthiana</i>	0.6	5
<i>Polianthion wichurae</i>	0.3	0.2
<i>Schoenus armeria</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Thysanotus</i> sp.	0.1	0.1
<i>Thysanotus sparteus</i>	0.4	0.1

**PHOTOS**



Site Name: WE082  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/11/2011  
 GPS Location: GDA94 (Zone 50) 332409E 6740648N  
 Community: 7b  
 Landform Type: Upper Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: W  
 Soil Type: Clay Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: <5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: *Ecdeiocolea monostachya*, *Hakea incrassata*, *Melaleuca aspalathoides*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.2	0.1
<i>Allocasuarina humilis</i>	0.4	1
<i>Allocasuarina microstachya</i>	0.3	2
<i>Amphipogon turbinatus</i>	0.1	0.1
<i>Astroloma glaucescens</i>	0.3	0.2
<i>Babingtonia camphorosmae</i>	0.2	1
<i>Baeckea grandiflora</i>	0.4	0.3
<i>Banksia carlinoides</i>	0.4	3
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.2
<i>Banksia shuttleworthiana</i>	0.3	2
<i>Boronia cymosa</i>	0.1	0.1
<i>Calothamnus sanguineus</i>	0.5	3
<i>Caustis dioica</i>	0.2	0.5
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.2	0.2
<i>Conostylis androstemma</i>	0.2	0.3
<i>Conostylis canteriata</i>	0.2	0.2
<i>Cristonia biloba</i>	0.3	0.2
<i>Cryptandra myriantha</i>	0.3	0.2

<i>Dampiera lindleyi</i>	0.2	0.1
<i>Desmocladius semiplanus</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	15
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.3	1
<i>Eucalyptus macrocarpa</i> x <i>pyriformis</i> (3)		
<i>Gastrolobium plicatum</i>	0.3	0.5
<i>Geleznovia verrucosa</i>	0.2	0.1
<i>Goodenia coerulea</i>	0.1	0.1
<i>Hakea incrassata</i>	0.4	8
<i>Hakea lissocarpha</i>	0.3	1
<i>Hakea spathulata</i>	0.3	0.5
<i>Hakea stenocarpa</i>	0.3	1
<i>Hibbertia crassifolia</i>	0.4	0.7
<i>Hibbertia hypericoides</i>	0.3	1
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>	0.2	0.1
<i>Laxmannia omnifertilis</i>	0.1	0.1
<i>Lepidosperma</i> aff. <i>scabrum</i>	0.3	0.2
<i>Leptospermum spinescens</i>	0.3	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.2	0.1
<i>Melaleuca aspalathoides</i>	0.4	8
<i>Melaleuca leuropoma</i>	0.4	1
<i>Melaleuca trichophylla</i>	0.2	5
<i>Mesomelaena pseudostygia</i>	0.4	3
<i>Mesomelaena tetragona</i>	0.1	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.2
<i>Petrophile brevifolia</i>	0.3	0.2
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus brevisetis</i>	0.2	0.2
<i>Schoenus clandestinus</i>	0.2	0.5
<i>Stenanthemum</i> aff. <i>notiale</i> subsp. <i>notiale</i>	0.2	0.2
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.2	0.2
<i>Stylidium repens</i>	0.1	0.1
<i>Thysanotus dichotomus</i>	0.3	0.5
<i>Verticordia laciniata</i>	0.3	0.1
<i>Verticordia pennigera</i>	0.2	0.2



**PHOTOS**



Site Name: WE083  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/11/2011  
 GPS Location: GDA94 (Zone 50) 332397E 6741673N  
 Community: 13a  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 Vegetation Condition: 1 - Pristine  
 Fire: <5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Eucalyptus todtiana*

Lower Stratum 1: *Calothamnus sanguineus, Lambertia multiflora* var. *multiflora, Melaleuca leuropoma*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia barbinervis</i> subsp. <i>borealis</i>	0.2	0.1
<i>Acacia blakelyi</i>	1	0.5
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.2	0.1
<i>Acacia stenoptera</i>	0.2	0.1
<i>Alexgeorgea nitens</i>	0.1	5
<i>Allocasuarina humilis</i>	0.6	2
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.1	0.2
<i>Anigozanthos pulcherrimus</i>	0.2	0.1
<i>Astroloma xerophyllum</i>	0.3	0.5
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.3
<i>Banksia leptophylla</i> var. <i>melletica</i>	0.4	1
<i>Banksia scabrella</i> (4)	0.3	0.5
<i>Banksia sessilis</i> var. <i>flabellifolia</i>	0.6	0.1
<i>Beaufortia elegans</i>	0.6	3
<i>Calectasia hispida</i>		
<i>Calothamnus sanguineus</i>	0.8	6
<i>Calytrix fraseri</i>	0.1	0.2
<i>Calytrix sapphirina</i>	0.4	0.5
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.5

<i>Cassytha ?pomiformis</i>		0.1
<i>Caustis dioica</i>	0.3	0.2
<i>Chordifex sinuosus</i>	0.3	0.2
<i>Conostylis canteriata</i>	0.1	0.5
<i>Conostylis hiemalis</i>	0.1	0.1
<i>Daviesia nudiflora</i>	0.3	0.5
<i>Desmocladus semiplanus</i>	0.1	0.2
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.3	0.5
<i>Eremaea ectadioclada</i>	0.3	1
<i>Eucalyptus todtiana</i>	3	3
<i>Gompholobium tomentosum</i>	0.3	0.4
<i>Haemodorum spicatum</i>	0.5	0.1
<i>Hibbertia hypericoides</i>	0.6	6
<i>Hibbertia subvaginata</i>	0.1	0.1
<i>Lambertia multiflora</i> var. <i>multiflora</i>	0.8	4
<i>Lasiopetalum drummondii</i>	0.3	0.2
<i>Lasiopetalum ogilvieanum</i> (1)	0.3	0.1
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.4	8
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	0.3	0.4
<i>Lyginia imberbis</i>	0.2	0.1
<i>Lysinema pentapetalum</i>	0.6	1
<i>Melaleuca leuropoma</i>	0.4	5
<i>Melaleuca</i> aff. <i>leuropoma</i>	0.4	0.2
<i>Opercularia vaginata</i>	0.1	0.1
<i>Petrophile drummondii</i>	0.5	0.3
<i>Pimelea leucantha</i>	0.6	0.3
<i>Platysace xerophila</i>		
<i>Quoya verbascina</i>	0.5	0.5
<i>Schoenus curvifolius</i>	0.2	0.1
<i>Stachystemon axillaris</i>	0.4	0.1
<i>Stenanthemum</i> aff. <i>notiale</i> subsp. <i>notiale</i>	0.2	0.3
<i>Stirlingia latifolia</i>	0.1	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.1	0.1
<i>Verticordia blepharophylla</i>	0.3	0.1
<i>Verticordia grandis</i>	0.1	0.1
<i>Xanthosia huegelii</i>	0.1	0.1

**PHOTOS**



Site Name: WE084  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/11/2011  
 GPS Location: GDA94 (Zone 50) 332628E 6741891N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Sandy Loam  
 Soil Colour: Yellow/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: <5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: *Daviesia divaricata* subsp. *divaricata* ms, *Ecdeiocolea monostachya*, *Hakea circumalata*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuaria</i>	0.2	0.2
<i>Astroloma serratifolium</i>	0.2	0.1
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.3	0.2
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.6	0.5
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.4	0.2
<i>Cryptandra myriantha</i>	0.1	0.1
<i>Dampiera spicigera</i>	0.1	0.2
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.5	10
<i>Daviesia pedunculata</i>	0.2	0.2
<i>Ecdeiocolea monostachya</i>	0.5	30
<i>Eremaea violacea</i> subsp. <i>violacea</i>	0.2	0.5
<i>Goodenia coerulea</i>	0.2	0.1
<i>Grevillea eriostachya</i>	0.5	2.5
<i>Hakea circumalata</i>	0.5	5
<i>Hakea cygna</i> subsp. <i>cygna</i>	0.3	0.5
<i>Isopogon tridens</i>	0.4	0.5
<i>Jacksonia nutans</i>	0.4	0.5
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	1
<i>Lepidosperma brunonianum</i> sens. <i>lat.</i>	0.3	1

<i>Leptospermum oligandrum</i>	0.4	0.3
<i>Leucopogon hispidus</i>	0.2	0.1
<i>Melaleuca leuropoma</i>	0.4	5
<i>Mesomelaena pseudostygia</i>	0.4	6
<i>Opercularia vaginata</i>	0.1	0.1
<i>Petrophile megalostegia</i>	0.1	0.1
<i>Pileanthus filifolius</i>	0.3	0.5
<i>Scaevola canescens</i>	0.3	0.5
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Stackhousia dielsii</i>	0.3	0.1
<i>Stenanthemum</i> aff. <i>notiale</i> subsp. <i>notiale</i>	0.2	0.2
<i>Stylidium adpressum</i>	0.1	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.2	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Thysanotus dichotomus</i>	0.2	0.4

**PHOTOS**



Site Name: WE085  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/11/2011  
 GPS Location: GDA94 (Zone 50) 333155E 6743015N  
 Community: 7a  
 Landform Type: Wet  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Clay Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: <5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Melaleuca concreta*

Lower Stratum 1: *Banksia carlinoides*, *Melaleuca tinkeri*, *Melaleuca trichophylla*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia dilatata</i>	0.2	0.3
<i>Allocasuarina microstachya</i>	0.2	0.5
<i>Amphipogon caricinus</i>	0.1	0.1
<i>Andersonia lehmanniana</i>	0.2	0.3
<i>Babingtonia camphorosmae</i>	0.2	2
<i>Banksia carlinoides</i>	0.4	12
<i>Banksia fraseri</i> var. <i>?fraseri</i>	0.2	0.5
<i>Boronia cymosa</i>	0.2	0.1
<i>Calothamnus longissimus</i>	0.2	0.5
<i>Calytrix flavescens</i>	0.1	0.3
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.2	0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.1	0.1
<i>Conostylis androstemma</i>	0.2	0.3
<i>Conostylis canteriata</i>	0.2	0.1
<i>Cristonia biloba</i>	0.2	0.5
<i>Dampiera lindleyi</i>	0.2	0.4
<i>Daviesia oxyclada</i>	0.2	0.3
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.3	0.5

<i>Glischrocaryon aureum</i>	0.3	0.3
<i>Goodenia trichophylla</i>	0.1	0.1
<i>Hakea incrassata</i>	0.2	0.5
<i>Hakea lissocarpha</i>	0.3	3
<i>Hakea spathulata</i>	0.2	4
<i>Hakea trifurcata</i>	0.3	0.3
<i>Hibbertia acerosa</i>	0.2	0.1
<i>Hibbertia crassifolia</i>	0.3	2
<i>Hibbertia hypericoides</i>	0.3	3
<i>Hypocalymma hirsutum</i>	0.1	0.1
<i>Jacksonia angulata</i>	0.2	2.5
<i>Laxmannia omnifertilis</i>	0.1	0.1
<i>Lepidosperma aff.scabrum</i>	0.2	0.2
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.2	0.5
<i>Melaleuca concreta</i>	1	1
<i>Melaleuca aff.leuropoma</i>	0.4	0.4
<i>Melaleuca tinkerii</i>	0.3	10
<i>Melaleuca trichophylla</i>	0.2	25
<i>Mirbelia floribunda</i>	0.1	0.2
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.5
<i>Petrophile chrysantha</i>	0.3	0.2
<i>Schoenus brevisetis</i>	0.1	0.2
<i>Schoenus clandestinus</i>	0.1	5
<i>Stylidium dichotomum</i>	0.1	5
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.2	0.2
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.3	0.3
<i>Verticordia laciniata</i>	0.3	0.1
<i>Verticordia pennigera</i>	0.2	0.2

**PHOTOS**



Site Name: WE086  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/11/2011  
 GPS Location: GDA94 (Zone 50) 332642E 6743025N  
 Community: 14  
 Landform Type: Flat (other)  
 Slope Class: Level (0 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: Grey/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Calothamnus quadrifidus* subsp. *angustifolius*, *Melaleuca radula*

Lower Stratum 1: *Dampiera teres* (broad-leaf variant), *Verticordia densiflora* var. *densiflora*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Amphipogon caricinus</i>	0.1	0.1
<i>Babingtonia camphorosmae</i>	0.1	0.2
<i>Banksia carlinoides</i>	0.4	3
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.5	12
<i>Calytrix depressa</i>	0.2	0.2
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.1	0.2
<i>Dampiera teres</i> (broad-leaf variant)	0.3	7
<i>Desmocladius asper</i>	0.2	0.2
<i>Goodenia trichophylla</i>	0.1	0.1
<i>Grevillea umbellulata</i>	0.3	5
<i>Hakea lissocarpha</i>	0.3	0.2
<i>Hakea spathulata</i>	0.2	0.3
<i>Harperia lateriflora</i>	0.1	15
<i>Isotoma hypocrateriformis</i>	0.1	0.1
<i>Jacksonia angulata</i>	0.3	3
<i>Lepidosperma pubisquameum</i>	0.2	0.2
<i>Melaleuca radula</i>	1.6	5
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	3
<i>Ptilotus manglesii</i>	0.1	0.1

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<i>Schoenus andrewsii</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Stirlingia simplex</i>		
<i>Stylidium dichotomum</i>	0.1	0.5
<i>Thryptomene racemulosa</i>	0.3	1
<i>Verticordia blepharophylla</i>	0.3	4
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.4	20

**PHOTOS**

Site Name: WE087  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/11/2011  
 GPS Location: GDA94 (Zone 50) 335388E 6745590N  
 Community: 7b  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Clay Loam  
 Soil Colour: Grey/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Allocasuarina campestris*, *Melaleuca aff.leuropoma*

Lower Stratum 1: *Banksia carlinoides*, *Ecdeiocolea monostachya*, *Melaleuca aspalathoides*

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia dilatata</i>	0.2	0.1
<i>Allocasuarina campestris</i>	1.6	1.5
<i>Allocasuarina microstachya</i>	0.4	0.5
<i>Amphipogon caricinus</i>	0.1	0.1
<i>Babingtonia camphorosmae</i>	0.3	0.3
<i>Banksia carlinoides</i>	1	10
<i>Calothamnus sanguineus</i>	0.4	0.3
<i>Calytrix flavescens</i>	0.2	0.1
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.2
<i>Cassytha ?pomiformis</i>		0.1
<i>Caustis dioica</i>	0.2	0.2
<i>Chordifex sinuosus</i>	0.3	0.2
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.2	0.1
<i>Cristonia biloba</i>	0.4	0.2
<i>Dampiera lindleyi</i>	0.4	2
<i>Darwinia speciosa</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	20
<i>Eremaea beaufortoides</i> var. <i>microphylla</i>	0.3	0.5
<i>Gastrolobium plicatum</i>	0.2	0.2



<i>Goodenia trichophylla</i>	0.1	0.1
<i>Hakea circumalata</i>	0.6	1
<i>Hakea costata</i>	0.5	0.3
<i>Hakea incrassata</i>	0.3	2
<i>Hakea lissocarpha</i>	0.2	0.3
<i>Hakea spathulata</i>	0.3	1
<i>Harperia lateriflora</i>	0.1	0.3
<i>Hibbertia crassifolia</i>	0.3	3
<i>Hibbertia hypericoides</i>	0.4	4
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.2
<i>Lepidosperma brunonianum</i> sens. lat.	0.1	0.1
<i>Lepidosperma</i> aff. <i>scabrum</i>	0.2	0.1
<i>Melaleuca aspalathoides</i>	0.3	12
<i>Melaleuca</i> aff. <i>leuropoma</i>	1.3	2
<i>Mesomelaena pseudostygia</i>	0.3	0.4
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.3
<i>Patersonia graminea</i>	0.3	0.1
<i>Petrophile brevifolia</i>	0.3	0.1
<i>Ptilotus manglesii</i>	0.1	0.1
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus brevisetis</i>	0.1	0.2
<i>Schoenus clandestinus</i>	0.1	0.2
<i>Schoenus unispiculatus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.4	0.5
<i>Stenanthemum intricatum</i>	0.1	0.1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.1	0.1
<i>Thryptomene</i> ? <i>racemulosa</i>	0.3	0.2
<i>Thysanotus</i> sp.	0.1	0.1
<i>Thysanotus sparteus</i>	0.3	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.6	0.5
<i>Verticordia monadelphica</i> var. <i>monadelphica</i>		
<i>Verticordia pennigera</i>	0.2	0.2

**PHOTOS**



Site Name: WE088  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/11/2011  
 GPS Location: GDA94 (Zone 50) 333737E 6745264N  
 Community: 13b  
 Landform Type: Upper Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: N  
 Soil Type: Sand  
 Soil Colour: Yellow  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Xylomelum angustifolium*  
 Mid Stratum 1: *Adenanthos cygnorum* subsp. *cygnorum*, *Banksia prionotes*  
 Lower Stratum 1: *Banksia attenuata*, *Banksia leptophylla* var. *melletica*, *Hakea polyanthema*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i>	2.5	4
<i>Banksia attenuata</i>	1.3	4
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.1	0.4
<i>Banksia leptophylla</i> var. <i>melletica</i>	1.2	20
<i>Banksia prionotes</i>	2.5	7
<i>Banksia scabrella</i> (4)	1	1
<i>Beaufortia elegans</i>	1.5	10
<i>Calothamnus sanguineus</i>	1.5	1
<i>Calytrix sapphirina</i>	0.2	0.1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.5	2
<i>Conostylis canteriata</i>	0.1	0.1
<i>Dampiera spicigera</i>	0.1	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.5	5
<i>Eremaea violacea</i> subsp. <i>violacea</i>	0.3	2
<i>Goodenia coerulea</i>	0.1	0.1
<i>Hakea costata</i>	1	0.3
<i>Hakea cygna</i> subsp. <i>cygna</i>	1.2	1
<i>Hakea polyanthema</i>	1.2	3

<i>Hakea trifurcata</i>	1	2
<i>Hemiphora bartlingii</i>	0.4	0.1
<i>Hibbertia acerosa</i>	0.1	0.1
<i>Hibbertia crassifolia</i>	0.3	0.3
<i>Hibbertia hypericoides</i>	0.5	2
<i>Hypocalymma hirsutum</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.2	3
<i>Leucopogon hispidus</i>	0.2	0.3
<i>Lyginia imberbis</i>	0.2	0.1
<i>Melaleuca leuropoma</i>	0.4	1
<i>Mesomelaena pseudostygia</i>	0.4	3
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Petrophile scabriuscula</i>	1.3	0.3
<i>Pileanthus filifolius</i>	0.4	1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.4	0.5
<i>Stylidium crossocephalum</i>	0.1	0.1
<i>Stylidium repens</i>	0.1	0.1
<i>Verticordia grandis</i>	1.5	0.6
<i>Xylomelum angustifolium</i>	5	15

**PHOTOS**

Site Name: WE089  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 25/11/2011  
 GPS Location: GDA94 (Zone 50) 336088E 6740741N  
 Community: 10  
 Landform Type: Mid Slope  
 Slope Class: Level (0 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Yellow/Brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: *Calothamnus quadrifidus* subsp. *angustifolius*, *Grevillea biformis* subsp. *biformis*  
 Lower Stratum 1: *Daviesia divaricata* subsp. *divaricata* ms, *Ecdeiocolea monostachya*, *Melaleuca leuropoma*

#### **SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia auronitens</i>	0.2	0.3
<i>Acacia comans</i>	0.4	1
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.2	0.2
<i>Astroloma serratifolium</i>	0.2	0.2
<i>Banksia shuttleworthiana</i>	0.4	0.5
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>	0.3	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1.4	4
<i>Cassylia ?pomiformis</i>		0.1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.4	0.5
<i>Conostylis androstemma</i>	0.2	0.1
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.3
<i>Cryptandra myriantha</i>	0.1	0.1
<i>Cryptandra pungens</i>	0.3	0.1
<i>Cryptandra spyridioides</i>	0.1	0.1
<i>Dampiera oligophylla</i>	0.2	0.1
<i>Dampiera spicigera</i>	0.1	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.5	8
<i>Daviesia pedunculata</i>	0.2	0.4

<i>Ecdeiocola monostachya</i>	0.5	15
<i>Eremaea violacea</i> subsp. <i>violacea</i>	0.3	3
<i>Geleznowia verrucosa</i>	0.1	0.1
<i>Goodenia coerulea</i>	0.2	0.1
<i>Grevillea biformis</i> subsp. <i>biformis</i>	1.6	1
<i>Grevillea shuttleworthiana</i> subsp. <i>canarina</i>	0.5	0.5
<i>Hakea polyanthema</i>	0.5	3
<i>Hibbertia crassifolia</i>	0.3	0.5
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	2
<i>Lepidosperma brunonianum</i> sens. lat.	0.3	0.2
<i>Lepidosperma</i> aff. <i>scabrum</i>	0.3	0.1
<i>Leucopogon hispidus</i>	0.1	0.2
<i>Logania spermacocea</i>	0.1	0.1
<i>Melaleuca leuropoma</i>	0.4	8
<i>Mesomelaena pseudostygia</i>	0.4	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.2	3
<i>Opercularia vaginata</i>	0.2	0.3
<i>Pileanthus filifolius</i>	0.6	0.5
<i>Pimelea angustifolia</i>	0.3	0.1
<i>Schoenus clandestinus</i>	0.1	0.4
<i>Scholtzia laxiflora</i>	0.4	3
<i>Stenanthemum</i> aff. <i>notiale</i> subsp. <i>notiale</i>	0.1	0.1
<i>Stylidium adpressum</i>	0.1	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.1	0.1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.1	0.1
<i>Thysanotus asper</i>	0.1	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.1	0.1



**PHOTOS**



Site Name: WE090  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 26/11/2011  
 GPS Location: GDA94 (Zone 50) 335868E 6740760N  
 Community: 7b  
 Landform Type: Upper Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Aspect: E  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: > 5years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: *Banksia carlinoides, Hibbertia hypericoides, Melaleuca trichophylla*

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuaria</i>	0.2	0.1
<i>Acacia fagonioides</i>	0.2	0.1
<i>Allocasuarina humilis</i>	0.5	5
<i>Allocasuarina microstachya</i>	0.2	1
<i>Amphipogon turbinatus</i>	0.1	0.1
<i>Astroloma microdonta</i>	0.1	0.1
<i>Babingtonia camphorosmae</i>	0.2	0.3
<i>Banksia bipinnatifida</i> subsp. <i>multifida</i>	0.1	0.2
<i>Banksia carlinoides</i>	0.4	20
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.1	0.2
<i>Banksia scabrella</i> (4)	0.3	0.2
<i>Banksia shuttleworthiana</i>	0.3	0.4
<i>Boronia cymosa</i>	0.1	0.1
<i>Caladenia flava</i>	0.2	0.1
<i>Calectasia hispida</i>	0.1	0.1
<i>Calothamnus sanguineus</i>	0.5	6
<i>Cassytha glabella</i> forma <i>bicallosa</i>		0.1
<i>Caustis dioica</i>	0.3	0.5

<i>Chordifex sinuosus</i>	0.2	0.1
<i>Conostylis androstemma</i>	0.1	0.3
<i>Conostylis canteriata</i>	0.1	0.2
<i>Cristonia biloba</i>	0.3	0.3
<i>Dampiera oligophylla</i>	0.2	0.1
<i>Daviesia incrassata</i> subsp. <i>teres</i>	0.3	0.3
<i>Daviesia pedunculata</i>	0.2	0.2
<i>Ecdeiocolea monostachya</i>	0.4	0.5
<i>Eremaea beaufortoides</i> var. <i>microphylla</i>	0.3	0.5
<i>Gastrolobium plicatum</i>	0.3	0.3
<i>Geleznowia verrucosa</i>	0.1	0.1
<i>Goodenia coerulea</i>	0.1	0.1
<i>Hakea auriculata</i>	0.4	0.5
<i>Hakea incrassata</i>	0.4	5
<i>Hakea lissocarpha</i>	0.3	0.5
<i>Hakea polyanthema</i>	0.4	2
<i>Hakea stenocarpa</i>	0.3	0.5
<i>Hakea trifurcata</i>	0.3	0.2
<i>Hibbertia crassifolia</i>	0.4	1
<i>Hibbertia hypericoides</i>	0.4	15
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>	0.2	0.1
<i>Hypocalymma hirsutum</i>	0.2	0.2
<i>Jacksonia restioides</i>	0.3	0.2
<i>Laxmannia omnifertilis</i>	0.1	0.1
<i>Lechenaultia biloba</i>	0.2	0.1
<i>Lepidobolus chaetocephalus</i>	0.3	0.1
<i>Lepidosperma pubisquameum</i>	0.2	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.4	1
<i>Melaleuca aspalathoides</i>	0.3	2
<i>Melaleuca</i> aff. <i>leuropoma</i>	0.4	0.3
<i>Melaleuca trichophylla</i>	0.2	10
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Persoonia filiformis</i> (2)	0.1	0.1
<i>Petrophile brevifolia</i>	0.2	0.3
<i>Petrophile scabriuscula</i>	0.4	0.2
<i>Pimelea sulphurea</i>	0.1	0.1
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus brevisetis</i>	0.1	0.2
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stylidium crossocephalum</i>	0.1	0.1
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>	0.1	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.1

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<i>Stylidium repens</i>	0.1	0.1
<i>Verticordia laciniata</i>	0.3	0.5
<i>Verticordia pennigera</i>	0.1	0.1

**PHOTOS**

Site Name: WE091  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 03/10/2012  
 GPS Location: WGS84 (Zone 50) 335121E 6750643N  
 Community: 5  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Sand  
 Soil Colour: Brown and Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 3 - Very Good  
 Disturbance: Grazing, Exotic Weeds  
 Fire: >10 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Allocasuarina campestris* (3m, 40%)  
 Mid Stratum 2: *Ecdeiocolea monostachya* (0.5m, 8%)

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.3	0.2
<i>Allocasuarina campestris</i>	3	40
* <i>Arctotheca calendula</i>	0.2	0.4
<i>Arthropodium dyeri</i>	0.4	0.1
<i>Austrostipa elegantissima</i>	0.5	0.5
* <i>Avena barbata</i>	0.4	0.4
* <i>Briza maxima</i>	0.4	0.1
<i>Caladenia flava</i>	0.1	0.1
<i>Calandrinia</i> sp. Blackberry (D.M. Porter 171)	0.1	0.1
<i>Chamaescilla versicolor</i>	0.1	0.1
<i>Crassula colorata</i> var. <i>acuminata</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	8
* <i>Ehrharta longiflora</i>	0.4	0.5
* <i>Erodium cicutarium</i>	0.1	0.1
<i>Gnephosis angianthoides</i>	0.1	0.1
<i>Grevillea biternata</i>	1.2	0.5
* <i>Hypochaeris glabra</i>	0.2	0.4
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.2

<i>*Lysimachia arvensis</i>	0.1	0.1
<i>Mesomelaena pseudostygia</i>	0.4	0.3
<i>Neurachne alopecuroidea</i>	0.3	0.1
<i>*Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Petrophile drummondii</i>	1.5	0.5
<i>Podotheca gnaphalioides</i>	0.1	0.2
<i>Scholtzia laxiflora</i>	1.8	0.3
<i>Sowerbaea laxiflora</i>	0.3	0.1
<i>Trachymene pilosa</i>	0.1	0.1
<i>*Ursinia anthemoides</i>	0.2	0.2
<i>*Vulpia myuros</i>	0.1	1
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.2	0.1
<i>Waitzia acuminata</i> var. <i>albicans</i>	0.2	0.1

**PHOTOS**



Site Name: WE092  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 03/10/2012  
 GPS Location: WGS84 (Zone 50) 335074E 6750504N  
 Community: 4  
 Landform Type: Flat  
 Slope Class: Level (0 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Brown and Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 3 - Very Good  
 Disturbance: Grazing, Exotic Weeds  
 Fire: >10 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Allocasuarina campestris and Melaleuca radula (3m, 12%)  
 Mid Stratum 1: Melaleuca concreta and Thryptomene sp. Mingenew (Diels & Pritzel 332) (1.8m, 9%)  
 Lower Stratum 1: Ecdeiocolea monostachya and Desmocladius asper (0.4m, 1%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia acuminata</i>		
<i>Acacia neurophylla</i> subsp. <i>neurophylla</i>		
<i>Allocasuarina campestris</i>	3	7
* <i>Arctotheca calendula</i>	0.2	0.1
<i>Arthropodium dyeri</i>	0.4	0.1
* <i>Briza maxima</i>	0.3	0.1
<i>Burchardia congesta</i>	0.2	0.1
<i>Cassytha flava</i>		0.1
<i>Chamaescilla versicolor</i>	0.2	0.1
<i>Conostylis prolifera</i>	0.1	0.1
<i>Desmocladius asper</i>	0.2	0.4
<i>Ecdeiocolea monostachya</i>	0.4	0.5
* <i>Ehrharta longiflora</i>	0.3	0.1
<i>Gnephosis drummondii</i>	0.1	0.1
<i>Grevillea biternata</i>	0.8	0.5
<i>Hakea spathulata</i>	0.5	0.3
* <i>Hypochaeris glabra</i>	0.2	0.4

<i>Lepidosperma tenue</i>	0.4	0.3
* <i>Lysimachia arvensis</i>	0.1	0.1
<i>Melaleuca aspalathoides</i>	0.2	0.1
<i>Melaleuca concreta</i>	1.8	4
<i>Melaleuca radula</i>	3	5
<i>Neurachne alopecuroidea</i>	0.3	0.1
<i>Opercularia vaginata</i>	0.1	0.2
<i>Patersonia graminea</i>	0.2	0.1
<i>Podolepis lessonii</i>	0.1	0.1
<i>Ptilotus manglesii</i>	0.1	0.1
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332) (3)	1.2	5
<i>Thysanotus manglesianus</i>		0.1
<i>Trachymene pilosa</i>	0.1	0.1
* <i>Ursinia anthemoides</i>	0.2	0.2
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.8	0.2
* <i>Vulpia myuros</i>	0.2	0.5
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.2	0.1

**PHOTOS**

Site Name: WE093  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 03/10/2012  
 GPS Location: WGS84 (Zone 50) 335144E 6750477N  
 Community: 4  
 Landform Type: Flat  
 Slope Class: Level (0 degrees)  
 Soil Type: Sand  
 Soil Colour: Brown and Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 3 - Very Good  
 Disturbance: Grazing, Exotic Weeds  
 Fire: >10 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: Scholtzia laxiflora and Vulpia sp. (1m,10%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.4	0.1
* <i>Arctotheca calendula</i>	0.3	0.4
<i>Austrostipa elegantissima</i>	0.5	0.4
<i>Austrostipa variabilis</i>	0.4	0.2
<i>Banksia fraseri</i> var. <i>fraseri</i>	0.5	1
* <i>Brassica tournefortii</i>	0.4	0.1
* <i>Bromus diandrus</i>	0.4	0.1
<i>Burchardia congesta</i>	0.1	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	1
<i>Chamaescilla versicolor</i>	0.2	0.1
* <i>Echium plantagineum</i>	0.2	0.1
* <i>Ehrharta longiflora</i>	0.4	0.4
* <i>Erodium cicutarium</i>	0.1	0.1
<i>Grevillea biternata</i>	0.6	0.4
<i>Hakea lissocarpa</i>	0.5	1
* <i>Hypochaeris glabra</i>	0.2	1
<i>Jacksonia hakeoides</i>	0.4	0.2
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.4	0.5
<i>Lepidosperma tenue</i>	0.4	0.1
<i>Leptospermum oligandrum</i>	1.5	0.5

<i>Lomandra micrantha</i> subsp. <i>micrantha</i>	0.1	0.1
<i>Melaleuca aspalathoides</i>	0.3	0.4
<i>Melaleuca leuropoma</i>	0.4	1
<i>Mesomelaena pseudostygia</i>	0.3	0.2
<i>Neurachne alopecuroidea</i>	0.3	0.1
<i>Podotheca gnaphalioides</i>	0.2	0.5
<i>Scholtzia laxiflora</i>	1	5
<i>Thysanotus manglesianus</i>		0.1
* <i>Ursinia anthemoides</i>	0.2	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.4	0.2
* <i>Vulpia myuros</i>	0.1	5

**PHOTOS**

Site Name: WE094  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 03/10/2012  
 GPS Location: WGS84 (Zone 50) 335184E 6750800N  
 Community: 4  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 3 - Very Good  
 Disturbance: Grazing, Exotic Weeds  
 Fire: >10 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Allocasuarina campestris (2.5m,5%)  
 Lower Stratum 1: Ecdeiocolea monostachya, Melaleuca leuropoma and Hibbertia hypericoides (0.5m, 10%)

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia blakelyi</i>		
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	1.2	0.1
<i>Acacia saligna</i>		
<i>Acanthocarpus</i> sp. Ajana (C.A. Gardner 8596)	0.3	0.2
<i>Allocasuarina campestris</i>	2.5	5
<i>Austrostipa elegantissima</i>	0.5	0.1
<i>Austrostipa macalpinei</i>	0.2	0.1
* <i>Brassica tournefortii</i>	0.1	0.1
* <i>Briza maxima</i>	0.3	0.1
<i>Burchardia congesta</i>	0.1	0.1
<i>Calandrinia</i> sp. Blackberry (D.M. Porter 171)		
<i>Calytrix strigosa</i>	0.2	0.1
<i>Dampiera oligophylla</i>	0.2	0.1
<i>Dampiera spicigera</i>	0.2	0.2
<i>Drosera</i> ? <i>porrecta</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	4
* <i>Ehrharta longiflora</i>	0.3	0.1

<i>Hakea lissocarpa</i>	0.6	0.4
<i>Hakea trifurcata</i>	1.8	2.5
<i>Hibbertia hypericoides</i>	0.5	3
* <i>Hypochaeris glabra</i>	0.2	0.4
<i>Jacksonia sternbergiana</i>		
<i>Lechenaultia linarioides</i>		
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.4	2
<i>Leptospermum oligandrum</i>	1.2	0.3
<i>Lomandra micrantha</i> subsp. <i>micrantha</i>	0.3	0.1
<i>Melaleuca leuropoma</i>	0.5	3
<i>Mesomelaena pseudostygia</i>	0.4	0.2
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.2	0.1
<i>Patersonia graminea</i>	0.3	0.1
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Podotheca gnaphalioides</i>	0.2	0.1
<i>Ptilotus manglesii</i>	0.2	0.1
<i>Scaevola canescens</i>	0.1	0.1
<i>Scholtzia laxiflora</i>	0.5	0.2
<i>Thryptomene racemulosa</i>	0.5	1
<i>Thryptomene</i> sp. <i>Mingenew</i> (Diels & Pritzel 332) (3)		
<i>Trachymene pilosa</i>	0.2	0.1
<i>Triodia danthonioides</i>		
* <i>Ursinia anthemoides</i>	0.2	0.2
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.4	0.3
* <i>Vulpia myuros</i>	0.1	0.5
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.2	0.1
<i>Waitzia acuminata</i> var. <i>albicans</i>	0.2	0.1



**PHOTOS**



Site Name: WE095  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 03/10/2012  
 GPS Location: GDA94 (Zone 50) 338705E 6749639N  
 Community: 5  
 Landform Type: Drainage Line  
 Slope Class: Level (0 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 3 - Very Good  
 Disturbance: Grazing, Exotic Weeds  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia aciphylla</i>	2	1
<i>Acacia neurophylla</i> subsp. <i>neurophylla</i>	1	0.2
<i>Allocasuarina campestris</i>	3	20
<i>Ecdeiocolea monostachya</i>	0.4	0.2
<i>Lepidosperma tenue</i>	0.4	0.2
<i>Melaleuca radula</i>	1	0.5
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Scholtzia laxiflora</i>		

**PHOTOS**



Site Name: WE096  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 12/09/2012  
 GPS Location: WGS84 (Zone 50) 333380E 6746856N  
 Community: 2  
 Landform Type: Mid Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sandy Loam  
 Soil Colour: Brown and White  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Eucalyptus accedens (12m,30%)  
 Lower Stratum 1: Rhagodia preissii subsp. preissii and mixed herbs (1m,15%)

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Brachyscome iberidifolia</i>	0.1	0.1
<i>Calandrinia</i> sp. Blackberry (D.M. Porter 171)	0.1	0.1
<i>Eucalyptus accedens</i>	12	30
<i>Hakea lissocarpha</i>		
<i>Muehlenbeckia adpressa</i>	0.2	0.1
<i>Rhagodia preissii</i> subsp. <i>preissii</i>	1	15
<i>Trachymene pilosa</i>	0.1	0.1



**PHOTOS**



Site Name: WE097  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 12/09/2012  
 GPS Location: WGS84 (Zone 50) 333937E 6749011N  
 Community: 14  
 Landform Type: Flat  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey and White  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: Allocasuarina humilis, Hibbertia hypericoides, Allocasuarina microstachya and Melaleuca leuropoma (0.6m,25%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia dilatata</i>	0.3	0.1
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.4	0.1
<i>Allocasuarina campestris</i>	0.6	0.1
<i>Allocasuarina humilis</i>	0.6	2
<i>Allocasuarina microstachya</i>	0.5	5
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.2	0.1
* <i>Arctotheca calendula</i>	0.1	0.1
<i>Babingtonia camphorosmae</i>	0.4	0.1
<i>Burchardia congesta</i>	0.1	0.1
<i>Caladenia flava</i>	0.1	0.1
<i>Chamaescilla versicolor</i>	0.1	0.1
<i>Conostylis candicans</i>	0.1	0.1
<i>Crassula colorata</i> var. <i>acuminata</i>	0.1	0.1
<i>Dampiera lindleyi</i>	0.3	0.1
<i>Drosera menziesii</i> subsp. <i>menziesii</i>	0.1	0.1
<i>Hakea lissocarpha</i>	0.4	1
<i>Harperia lateriflora</i>	0.1	0.1
<i>Hibbertia crassifolia</i>	0.4	0.1
<i>Hibbertia hypericoides</i>	0.5	10



<i>Hyalosperma cotula</i>	0.1	0.1
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Isotropis cuneifolia</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.2	0.1
<i>Lysinema pentapetalum</i>	0.2	0.1
<i>Melaleuca leuropoma</i>	0.4	5
<i>Melaleuca trichophylla</i>	0.4	0.1
<i>Mesomelaena pseudostygia</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.2	0.1
<i>Petrophile megalostegia</i>	0.3	0.1
<i>Petrophile shuttleworthiana</i>	0.5	0.1
<i>Podotheca gnaphaloides</i>	0.1	0.1
<i>Scaevola canescens</i>	0.2	0.1
<i>Sowerbaea laxiflora</i>	0.2	0.1
<i>Stylidium androsaceum</i>	0.1	0.1
<i>Stylidium rigidulum</i>	0.1	0.1

**PHOTOS**

Site Name: WE098  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 12/09/2012  
 GPS Location: WGS84 (Zone 50) 333466E 6747135N  
 Community: 3  
 Landform Type: Upper Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sand  
 Soil Colour: Grey and White  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: Melaleuca concreta and Melaleuca acutifolia (0.6m, 25%)

**SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia ericksoniae</i>	0.3	0.1
<i>Astroloma pedicellatum</i> ms	0.4	1
<i>Baeckea crispiflora</i> var. <i>tenuior</i>	0.3	0.1
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Chamaescilla versicolor</i>	0.2	0.1
<i>Chorizema racemosum</i>	0.2	0.1
<i>Comesperma volubile</i>	0.1	0.1
<i>Cryptandra intermedia</i> (atypical variant)	0.3	0.1
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	0.1	0.1
<i>Glischrocaryon aureum</i>	0.2	0.1
<i>Grevillea umbellulata</i>	0.4	0.1
<i>Hibbertia hypericoides</i>	0.3	0.1
<i>Melaleuca acutifolia</i>	0.6	5
<i>Melaleuca concreta</i>	0.6	22
<i>Melaleuca radula</i>	0.6	0.1
<i>Stylidium petiolare</i>	0.1	0.1
<i>Thysanotus manglesianus</i>		0.1

**PHOTOS**



Site Name: WE099  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 12/09/2012  
 GPS Location: WGS84 (Zone 50) 333266E 6746580N  
 Community: 12  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey and White  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Grevillea biformis* subsp. *biformis* and *Allocasuarina campestris* (2.5m,22%)  
 Lower Stratum 1: *Beaufortia elegans* and mixed shrub species over *Ecdeiocolea monostachya* (1m,17%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acanthocarpus</i> sp. <i>Ajana</i> (C.A. Gardner 8596)	0.3	0.1
<i>Allocasuarina campestris</i>	2.2	2
<i>Banksia shuttleworthiana</i>	0.3	0.1
<i>Beaufortia elegans</i>	1	2
<i>Dampiera oligophylla</i>	0.3	0.1
<i>Daviesia nudiflora</i>	0.3	0.1
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	15
<i>Geleznowia verrucosa</i>	0.5	0.1
<i>Grevillea biformis</i> subsp. <i>biformis</i>	2.5	20
<i>Hakea polyanthema</i>	0.5	0.1
<i>Hakea trifurcata</i>	2	5
<i>Hibbertia hypericoides</i>	0.5	1
<i>Leptospermum oligandrum</i>	0.7	0.1
<i>Melaleuca leuropoma</i>	0.4	0.1
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.2	0.1
<i>Pimelea angustifolia</i>	0.3	0.1
<i>Pterochaeta paniculata</i>	0.1	0.1



**PHOTOS**



Site Name: WE100  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 12/09/2012  
 GPS Location: WGS84 (Zone 50) 333307E 6747369N  
 Community: 2  
 Landform Type: Flat  
 Slope Class: Level (0 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Brown and Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Eucalyptus Eucalyptus loxophleba ?subsp. loxophleba (6.5m,30%)

Mid Stratum 1: Rhagodia preissii subsp. preissii and Melaleuca acutifolia (1.5m,20%)

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Crassula colorata</i> var. <i>acuminata</i>	0.1	0.1
<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	6.5	30
<i>Melaleuca acutifolia</i>	1.5	5
<i>Rhagodia preissii</i> subsp. <i>preissii</i>	1.5	15



**PHOTOS**



Site Name: WE101  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 12/09/2012  
 GPS Location: WGS84 (Zone 50) 333658E 6747829N  
 Community: 12  
 Landform Type: Mid Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey and White  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Eucalyptus todtiana (5m,5%)  
 Mid Stratum 1: Hakea trifurcata (1.5m,2%)  
 Lower Stratum 1: Beaufortia elegans and Hibbertia hypericoides (0.6m,25%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.2	0.1
<i>Baeckea grandiflora</i>	0.5	0.1
<i>Beaufortia elegans</i>	0.6	10
<i>Burchardia congesta</i>	0.2	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	0.1
<i>Calothamnus sanguineus</i>	0.5	2
<i>Cassytha</i> sp.		0.1
<i>Conostylis resinosa</i>	0.3	0.1
<i>Crassula colorata</i> var. <i>acuminata</i>	0.1	0.1
<i>Darwinia speciosa</i>	0.1	0.1
<i>Drosera erythrorhiza</i>		0.1
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	0.1	0.1
<i>Eucalyptus todtiana</i>	5	5
<i>Hakea trifurcata</i>	1.5	2
<i>Hibbertia hypericoides</i>	0.6	15
<i>Hyalosperma cotula</i>	0.1	0.1
<i>Jacksonia nutans</i>	0.5	0.1
<i>Lasiopetalum drummondii</i>	0.2	0.1

<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.1
<i>Leptospermum oligandrum</i>	0.3	0.1
<i>Leptospermum spinescens</i>	0.3	0.1
<i>Mesomelaena pseudostygia</i>	0.4	0.1
<i>Pimelea angustifolia</i>	0.2	0.1
<i>Stylidium flagellum</i>	0.1	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.4	0.1
<i>Verticordia grandis</i>	0.3	0.1

**PHOTOS**

Site Name: WE102  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 13/09/2012  
 GPS Location: WGS84 (Zone 50) 332615E 6744371N  
 Community: 8  
 Landform Type: Upper Slope of Hill (other)  
 Slope Class: Moderately Inclined (10 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: Laterite, 20-50% bedrock exposed  
 CF Abundance: 50-90%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: Melaleuca radula, Hakea spathulata, Allocasuarina humilis, Melaleuca aspalathoides over Ecdeiocolea monostachya (0.5m,30%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina humilis</i>	0.5	10
<i>Banksia fraseri</i> var. <i>fraseri</i>	0.4	5
<i>Boronia cymosa</i>	0.3	0.1
<i>Burchardia congesta</i>	0.2	0.1
<i>Cryptandra myriantha</i>	0.4	0.1
<i>Cryptandra nutans</i>	0.4	0.1
<i>Dampiera lindleyi</i>	0.3	0.1
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.4	2
<i>Daviesia incrassata</i> subsp. <i>teres</i>	0.4	0.1
<i>Daviesia pedunculata</i>	0.3	0.1
<i>Dodonaea ericoides</i>	0.2	0.1
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	5
<i>Hakea incrassata</i>	0.5	0.1
<i>Hakea lissocarpha</i>	0.5	0.1
<i>Hakea spathulata</i>	0.5	5
<i>Hibbertia hypericoides</i>	0.5	0.1



<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.1
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.3	0.1
<i>Melaleuca aspalathoides</i>	0.3	5
<i>Melaleuca radula</i>	0.7	5
<i>Opercularia vaginata</i>	0.2	0.1
<i>Petrophile shuttleworthiana</i>	0.4	0.1
<i>Pimelea sulphurea</i>	0.3	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Thysanotus manglesianus</i>		0.1
<i>Trachymene pilosa</i>	0.1	0.1

**PHOTOS**

Site Name: WE103  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 13/09/2012  
 GPS Location: WGS84 (Zone 50) 332640E 6744965N  
 Community: 12  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: Hakea circumalata, Hibbertia hypericoides, Banksia shuttleworthiana and Ecdeiocolea monostachya (0.6m,26%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina microstachya</i>	0.4	0.1
<i>Babingtonia camphorosmae</i>	0.2	0.1
<i>Banksia carlinoides</i>	0.6	2
<i>Banksia shuttleworthiana</i>	0.3	2
<i>Beaufortia elegans</i>	0.5	0.1
<i>Burchardia congesta</i>	0.2	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	0.7	0.1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.3	0.1
<i>Conostylis resinosa</i>	0.3	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.3	0.1
<i>Daviesia nudiflora</i>	0.5	0.1
<i>Daviesia pedunculata</i>	0.3	0.1
<i>Drosera ?porrecta</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.6	10
<i>Geleznowia verrucosa</i>	0.4	0.1
<i>Grevillea shuttleworthiana</i> subsp. <i>canarina</i>	0.6	0.1
<i>Hakea circumalata</i>	0.6	10
<i>Hakea costata</i>	0.5	0.1
<i>Hakea cygna</i> subsp. <i>cygna</i>	0.3	0.1



<i>Hibbertia crassifolia</i>	0.4	0.1
<i>Hibbertia hypericoides</i>	0.5	2
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Lasiopetalum drummondii</i>	0.2	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.2	0.1
<i>Leptospermum oligandrum</i>	0.5	0.1
<i>Mesomelaena pseudostygia</i>	0.3	0.1
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)	0.2	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Petrophile macrostachya</i>	0.2	0.1
<i>Petrophile megalostegia</i>	0.4	0.1
<i>Petrophile scabriuscula</i>	0.4	0.1
<i>Scaevola canescens</i>	0.1	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Thysanotus manglesianus</i>	0.1	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.3	0.1
<i>Verticordia nobilis</i>	0.6	0.1

**PHOTOS**

Site Name: WE104  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 12/09/2012  
 GPS Location: WGS84 (Zone 50) 332822E 6745628N  
 Community: 12  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey and White  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Banksia sessilis var. flabellifolia (3m,15%)  
 Mid Stratum 1: Banksia scabrella (2m,2%)  
 Lower Stratum 1: Beaufortia elegans and mixed shrubs (1m,10%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina humilis</i>	1	0.1
<i>Baeckea grandiflora</i>	0.6	1
<i>Banksia attenuata</i>	1	0.1
<i>Banksia scabrella</i> (4)	2	2
<i>Banksia sessilis</i> var. <i>flabellifolia</i>	3	15
<i>Beaufortia elegans</i>	1	10
<i>Calytrix sapphirina</i>	0.3	0.1
<i>Cassytha</i> sp.		0.1
<i>Conospermum boreale</i> subsp. ? <i>ascendens</i>	0.4	0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.1	0.1
<i>Drosera erythrorhiza</i>		0.1
<i>Drosera</i> ? <i>porrecta</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.2	0.1
<i>Geleznovia verrucosa</i>	0.3	0.1
<i>Hibbertia crassifolia</i>	0.5	0.1
<i>Hibbertia hypericoides</i>	0.3	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.2	0.1
<i>Leptospermum oligandrum</i>	0.5	0.1

<i>Leucopogon hispidus</i>	0.3	0.1
<i>Mesomelaena pseudostygia</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stylidium flagellum</i>	0.1	0.1
<i>Verticordia nobilis</i>	0.3	0.1
<i>Xylomelum angustifolium</i>	1	0.1

**PHOTOS**

Site Name: WE105  
 Site Type: QUADRAT  
 Dimensions: m x m  
 Survey Date: 12/09/2012  
 GPS Location: WGS84 (Zone 50) 333005E 6746470N  
 Community: 8  
 Landform Type: Upper slope of Ridge  
 Slope Class: Moderately Inclined (10 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Allocasuarina campestris (2m,80%)  
 Lower Stratum 1: Ecdeiocolea monostachya and sparse shrubs and herbs (0.5m,5%)

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia ?fagonioides</i>	0.5	0.1
<i>Allocasuarina campestris</i>	2	80
<i>Astroloma pedicellatum</i> ms	0.4	0.1
<i>Banksia sessilis</i> var. <i>flabellifolia</i>		
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	5
<i>Gastrolobium plicatum</i>	0.2	0.1



**PHOTOS**



Site Name: WE106  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 12/09/2012  
 GPS Location: WGS84 (Zone 50) 333804E 6748131N  
 Community: 12  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey and White  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: Allocasuarina campestris, Hibbertia hypericoides, Beaufortia elegans and Hakea circumalata (1.5m,20%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	1.5	5
<i>Allocasuarina microstachya</i>	0.4	0.1
<i>Babingtonia camphorosmae</i>	0.3	0.1
<i>Baeckea grandiflora</i>	0.5	1
<i>Banksia shuttleworthiana</i>	0.3	0.1
<i>Beaufortia elegans</i>	0.7	2
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.4	0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.1	0.1
<i>Darwinia speciosa</i>	0.2	0.1
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms	0.3	0.1
<i>Daviesia nudiflora</i>	0.3	0.1
<i>Drosera erythrorhiza</i>	0.1	0.1
<i>Eremaea ectadioclada</i>	0.3	0.1
<i>Hakea circumalata</i>	0.8	2
<i>Hakea incrassata</i>	0.5	0.1
<i>Hibbertia crassifolia</i>	0.4	0.1
<i>Hibbertia hypericoides</i>	0.5	10
<i>Lasiopetalum drummondii</i>	0.1	0.1
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.1



<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.3	0.1
<i>Melaleuca aspalathoides</i>	0.3	0.1
<i>Melaleuca trichophylla</i>	0.6	0.1
<i>Mesomelaena pseudostygia</i>	0.4	0.1
<i>Petrophile megalostegia</i>	0.4	0.1
<i>Scaevola canescens</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)	0.2	0.1

**PHOTOS**

Site Name: WE107  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 11/09/2012  
 GPS Location: WGS84 (Zone 50) 332711E 6739502N  
 Community: 13a  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey and White  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >4 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Eucalyptus todtiana (8m,5%)  
 Lower Stratum 1: Hibbertia hypericoides, Acacia ?fagonioides, Banksia carlinoides and Hakea polyanthema (0.6m,15%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia ?fagonioides</i>	0.5	2
<i>Alexgeorgea nitens</i>	0.1	0.1
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.2	0.1
<i>Banksia carlinoides</i>	0.4	2
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.3	0.1
<i>Beaufortia elegans</i>	0.4	0.1
<i>Calytrix sapphirina</i>	0.5	1
<i>Conospermum boreale</i> subsp. <i>?ascendens</i>	0.5	0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.1	0.1
<i>Conostylis crassinervia</i> subsp. <i>absens</i>	0.1	0.1
<i>Conostylis hiemalis</i>	0.1	0.1
<i>Cristonia biloba</i>	0.3	0.1
<i>Daviesia pedunculata</i>	0.3	0.1
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	0.1	0.1
<i>Eucalyptus todtiana</i>	8	5
<i>Gompholobium tomentosum</i>	0.3	0.1
<i>Hakea costata</i>	0.5	0.1
<i>Hakea polyanthema</i>	0.6	10

<i>Hypocalymma xanthopetalum</i>	0.2	0.1
<i>Isotropis cuneifolia</i>	0.2	0.1
<i>Lambertia multiflora</i> var. <i>multiflora</i>	1	0.1
<i>Lasiopetalum drummondii</i>	0.2	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.3	0.1
<i>Lysinema pentapetalum</i>	0.3	0.1
<i>Opercularia vaginata</i>	0.2	0.1
<i>Patersonia occidentalis</i>	0.4	0.1
<i>Petrophile scabriuscula</i>	0.4	0.1
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.4	0.1

**PHOTOS**

Site Name: WE108  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 11/09/2012  
 GPS Location: WGS84 (Zone 50) 333162E 6739767N  
 Community: 13a  
 Landform Type: Upper Slope  
 Slope Class: Moderately Inclined (10 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey and White (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Eucalyptus todtiana (6m,5%)  
 Mid Stratum 1: Banksia sessilis var. flabellifolia (2m,5%)  
 Lower Stratum 1: Melaleuca leuropoma, Allocasuarina humilis and Banksia scabrella (0.6m,20%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia ?fagonioides</i>	0.3	0.1
<i>Alexgeorgea nitens</i>	0.1	0.1
<i>Allocasuarina humilis</i>	0.6	2
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>	0.2	0.1
<i>Baeckea grandiflora</i>	0.4	1
<i>Banksia dallanneyi</i> subsp. <i>media</i>	0.2	0.1
<i>Banksia leptophylla</i> var. <i>melletica</i>	0.4	1
<i>Banksia scabrella</i> (4)	0.5	2
<i>Banksia sessilis</i> var. <i>flabellifolia</i>	2	5
<i>Bossiaea eriocarpa</i>	0.4	0.1
<i>Calothamnus sanguineus</i>	0.4	1
<i>Calytrix sapphirina</i>	0.6	1
<i>Conostylis canteriata</i>	0.2	0.1
<i>Conostylis hiemalis</i>	0.2	0.1
<i>Daviesia incrassata</i> subsp. <i>teres</i>	0.6	0.1
<i>Diplolaena eneabbensis</i>	0.3	0.1
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	0.1	0.1



<i>Drosera ?porrecta</i>	0.1	0.1
<i>Eremaea ectadioclada</i>	0.5	0.1
<i>Eucalyptus todtiana</i>	6	5
<i>Hakea psilorrhyncha</i>	1.5	0.1
<i>Hibbertia crassifolia</i>	0.4	0.1
<i>Isotropis cuneifolia</i>	0.1	0.1
<i>Jacksonia hakeoides</i>	0.3	0.1
<i>Johnsonia pubescens</i> subsp. <i>pubescens</i>	0.1	0.1
<i>Lasiopetalum drummondii</i>	0.4	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.4	0.1
<i>Melaleuca</i> aff. <i>leuropoma</i>	0.5	15
<i>Petrophile scabriuscula</i>	0.4	0.1
<i>Quoya verbascina</i>	0.3	0.1
<i>Schoenus curvifolius</i>		
<i>Schoenus</i> sp. A3 Ciliate Sheaths (K.R. Newbey 9402)	0.3	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.3	0.1
<i>Xanthosia huegelii</i>	0.1	0.1

**PHOTOS**

Site Name: WE109  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 10/09/2012  
 GPS Location: WGS84 (Zone 50) 332821E 6738983N  
 Community: 14  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: Banksia carlinoides, Hibbertia hypericoides and Ecdeiocolea monostachya (0.5m,8%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia dilatata</i>	0.3	0.1
<i>Allocasuarina humilis</i>	0.5	0.1
<i>Astroloma glaucescens</i>	0.2	1
<i>Babingtonia camphorosmae</i>	0.3	1
<i>Banksia carlinoides</i>	0.5	5
<i>Banksia shuttleworthiana</i>	0.4	1
<i>Boronia cymosa</i>		
<i>Bossiaea eriocarpa</i>	0.3	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Caladenia flava</i>	0.1	0.1
<i>Calytrix sapphirina</i>	0.5	1
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.2	0.1
<i>Conostylis canteriata</i>	0.2	0.1
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Dampiera juncea</i>	0.2	0.1
<i>Darwinia speciosa</i>	0.1	0.1
<i>Desmocladius semiplanus</i>	0.1	0.1
<i>Diplolaena eneabbensis</i>		
<i>Drosera erythrorhiza</i>	0.1	0.1



<i>Drosera ?porrecta</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	2
<i>Eremaea beaufortioides</i> var. <i>microphylla</i>	0.5	1
<i>Gompholobium tomentosum</i>	0.4	1
<i>Hakea costata</i>	0.4	1
<i>Hakea incrassata</i>	0.4	1
<i>Hakea spathulata</i>	0.4	0.1
<i>Hakea stenocarpa</i>	0.4	0.1
<i>Hibbertia hypericoides</i>	0.4	1
<i>Hypocalymma xanthopetalum</i>	0.3	0.1
<i>Jacksonia hakeoides</i>		
<i>Lambertia multiflora</i> var. <i>multiflora</i>		
<i>Lasiopetalum drummondii</i>	0.2	0.1
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)	0.4	1
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	0.3	0.1
<i>Melaleuca</i> aff. <i>leuropoma</i>	0.5	1
<i>Melaleuca trichophylla</i>	0.5	1
<i>Mesomelaena pseudostygia</i>	0.4	1
<i>Mesomelaena tetragona</i>	0.5	1
<i>Monotaxis bracteata</i>	0.1	0.1
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Petrophile megalostegia</i>	0.4	1
<i>Podotheca gnaphalioides</i>		
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Schoenus pleiostemoneus</i>	0.1	0.1
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>	0.3	1
<i>Stylidium flagellum</i>	0.1	0.1
<i>Stylidium rigidulum</i>	0.1	0.1
<i>Thysanotus</i> sp.	0.1	0.1

**PHOTOS**



Site Name: WE110  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 11/09/2012  
 GPS Location: WGS84 (Zone 50) 334529E 6739371N  
 Community: 14  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >3 years

**DOMINANT TAXA IN VEGETATION STRATA**

Lower Stratum 1: Banksia carlinoides, Allocasuarina microstachya and Melaleuca trichophylla (0.5m,15%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina humilis</i>	0.4	0.1
<i>Allocasuarina microstachya</i>	0.4	2
<i>Babingtonia camphorosmae</i>	0.2	1
<i>Banksia carlinoides</i>	0.5	10
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Burchardia congesta</i>	0.2	0.1
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.3	0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.2	0.1
<i>Dampiera lindleyi</i>	0.3	0.1
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	0.1	0.1
<i>Elythranthera brunonis</i>	0.1	0.1
<i>Hakea incrassata</i>	0.5	1
<i>Hakea lissocarpha</i>	0.4	0.1
<i>Hakea polyanthema</i>	0.4	0.1
<i>Hakea spathulata</i>	0.4	0.1
<i>Harperia lateriflora</i>	0.1	0.1
<i>Hibbertia hypericoides</i>	0.4	0.1
<i>Hypocalymma xanthopetalum</i>	0.2	0.1
<i>Jacksonia angulata</i>	0.3	0.1

<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)	0.2	0.1
<i>Melaleuca trichophylla</i>	0.3	2
<i>Neurachne alopecuroidea</i>	0.1	0.1
<i>Opercularia vaginata</i>	0.2	0.1
<i>Petrophile megalostegia</i>	0.3	0.1
<i>Schoenus armeria</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.1

**PHOTOS**

Site Name: WE111  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 GPS Location: WGS84 (Zone 50) 337054E 6738921N  
 Community: 8  
 Landform Type: Ridge  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Brown and Grey (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >4 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Eucalyptus accedens (2.5m,10%)  
 Lower Stratum 1: Petrophile shuttleworthiana, Hakea spathulata, Melaleuca aspalathoides and Ecdeiocolea monostachya (1m,32%)

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia comans</i>	0.4	0.1
<i>Allocasuarina campestris</i>	2.2	0.1
<i>Allocasuarina humilis</i>	0.3	0.1
<i>Baeckea crispiflora</i> var. <i>tenuior</i>	0.2	0.1
<i>Baeckea grandiflora</i>	0.4	0.1
<i>Banksia fraseri</i> var. <i>fraseri</i>	0.3	0.1
<i>Boronia cymosa</i>	0.2	0.1
<i>Chamaescilla versicolor</i>	0.1	0.1
<i>Dampiera lindleyi</i>	0.3	0.1
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	0.2	0.1
<i>Ecdeiocolea monostachya</i>	0.5	10
<i>Eucalyptus conveniens</i>	2.5	10
<i>Gastrolobium spinosum</i>	0.4	0.1
<i>Guichenotia micrantha</i>	0.4	0.1
<i>Guichenotia sarotes</i>	0.3	0.1
<i>Hakea lissocarpha</i>	0.5	0.1
<i>Hakea spathulata</i>	1	2
<i>Hibbertia hypericoides</i>	0.4	0.1
<i>Lambertia multiflora</i> var. <i>multiflora</i>	0.5	0.1



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<i>Melaleuca aspalathoides</i>	0.3	5
<i>Petrophile shuttleworthiana</i>	1	15
<i>Schoenus armeria</i>	0.2	0.1

**PHOTOS**



Site Name: WE112  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 GPS Location: WGS84 (Zone 50) 338243E 6739383N  
 Community: 1a  
 Landform Type: Flat Plain (other)  
 Slope Class: Level (0 degrees)  
 Soil Type: Sand  
 Soil Colour: Grey and White (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 2 - Excellent  
 Disturbance: Exotic Weeds  
 Fire: >5 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Eucalyptus accedens (8m,10%)  
 Mid Stratum 1: Macrozamia fraseri (1.7m,5%)  
 Lower Stratum 1: Anthocercis genistoides (0.5m,15%)

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	0.4	0.1
<i>Anthocercis genistoides</i>	0.5	15
* <i>Arctotheca calendula</i>	0.1	0.1
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	0.1	1
<i>Desmocladius asper</i>	0.1	0.1
* <i>Ehrharta brevifolia</i>	0.1	0.1
<i>Eucalyptus accedens</i>	8	10
<i>Gastrolobium spinosum</i>	0.4	1
<i>Gompholobium pungens</i>	0.2	0.1
<i>Jacksonia hakeoides</i>	0.3	0.1
<i>Macrozamia fraseri</i>	1.7	5
<i>Millotia myosotidifolia</i>	0.1	2
<i>Olearia rudis</i>	0.5	1
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Podotrochea gnaphalioides</i>	0.1	0.1
<i>Rhagodia preissii</i> subsp. <i>preissii</i>	0.3	0.1
<i>Senecio pinnatifolius</i> var. <i>latilobus</i>	0.1	0.1
<i>Thysanotus patersonii</i>	0.1	0.1
<i>Trachymene pilosa</i>	0.1	0.1

* <i>Ursinia anthemoides</i>	0.1	0.1
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**PHOTOS**



Site Name: WE113  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 11/09/2012  
 GPS Location: WGS84 (Zone 50) 338278E 6739687N  
 Community: 8  
 Landform Type: Plain  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >5 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: Eucalyptus conveniens (2m,10%)  
 Lower Stratum 1: Melaleuca aspalathoides, Hibbertia hypericoides and Daviesia daphnoides (0.4m,24%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina humilis</i>	0.4	1
<i>Allocasuarina microstachya</i>		
<i>Astroloma glaucescens</i>	0.3	0.1
<i>Baeckea grandiflora</i>	0.2	0.1
<i>Banksia carlinoides</i>	0.5	0.1
<i>Banksia fraseri</i> var. <i>fraseri</i>	0.4	1
<i>Beaufortia elegans</i>	0.3	0.1
<i>Burchardia congesta</i>	0.3	0.1
<i>Calectasia narragara</i>	0.3	0.1
<i>Calothamnus longissimus</i>	0.4	1
<i>Calothamnus sanguineus</i>		
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Dampiera teres</i>	0.3	0.1
<i>Daviesia daphnoides</i>	0.4	5
<i>Drosera pilos</i>		
<i>Ecdeiocolea monostachya</i>	0.5	1
<i>Elythranthera brunonis</i>		
<i>Eucalyptus conveniens</i>	2	10

<i>Glischrocaryon aureum</i>	0.2	0.1
<i>Hakea incrassata</i>		
<i>Hakea spathulata</i>	0.4	1
<i>Hibbertia crassifolia</i>	0.5	0.1
<i>Hibbertia hypericoides</i>	0.4	4
<i>Hypocalymma hirsutum</i>	0.2	0.1
<i>Isopogon divergens</i>	0.4	1
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.1
<i>Melaleuca aspalathoides</i>	0.2	15
<i>Mesomelaena pseudostygia</i>	0.4	0.1
<i>Petrophile megalostegia</i>	0.3	1
<i>Petrophile shuttleworthiana</i>	0.5	1
<i>Pimelea sulphurea</i>	0.4	0.1
<i>Pterostylis vittata</i>		
<i>Scaevola canescens</i>	0.2	0.1
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Sphaerolobium pulchellum</i>	0.2	0.1
<i>Stylidium drummondianum</i> (3)	0.1	0.1
<i>Synaphea aephyrsa</i> (3)		

**PHOTOS**

Site Name: WE117  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 05/10/2012  
 GPS Location: GDA94 (Zone 50) 341260E 6748366N  
 Community: 5  
 Landform Type: Drainage Line  
 Slope Class: Level (0 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 3 - Very Good  
 Disturbance: Exotic Weeds  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Acacia aciphylla</i>	2	0.5
<i>Acacia isoneura</i> subsp. <i>isoneura</i> (3)	2.5	0.5
<i>Acacia neurophylla</i> subsp. <i>neurophylla</i>	3.5	1
<i>Allocasuarina campestris</i>	2	85
<i>Ecdeiocolea monostachya</i>	0.5	0.4
* <i>Ehrharta longiflora</i>	0.4	3
* <i>Hypochaeris glabra</i>	0.1	1
<i>Melaleuca viminea</i> subsp. <i>viminea</i>		
<i>Thryptomene racemulosa</i>	1.5	1
<i>Thysanotus manglesianus</i>		0.1
* <i>Ursinia anthemoides</i>	0.2	2
<i>Verticordia densiflora</i> var. <i>densiflora</i>	1	0.5



**PHOTOS**





Site Name: WE119  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 03/10/2012  
 GPS Location: WGS84 (Zone 50) 340154E 6748470N  
 Community: 7a  
 Landform Type: Lower Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Clay Loam  
 Soil Colour: Brown and Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: <2%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Disturbance: None  
 Fire: >10 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: Allocasuarina campestris and Calothamnus quadrifidus (1.6m,2%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	1.6	1
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.2	2
<i>Astroloma pedicellatum</i> ms	0.3	0.5
<i>Austrostipa elegantissima</i>	0.5	1
<i>Babingtonia camphorosmae</i>	0.2	0.1
<i>Boronia cymosa</i>	0.3	0.2
<i>Borya sphaerocephala</i>	0.1	0.1
<i>Burchardia congesta</i>	0.2	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1.5	1
<i>Calytrix oldfieldii</i>	0.4	0.2
<i>Caustis dioica</i>	0.4	0.1
<i>Chamaescilla versicolor</i>	0.1	0.1
<i>Chorizema aciculare</i> subsp. <i>laxum</i>	0.3	0.2
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>	0.1	0.1
<i>Dampiera lavandulacea</i>	0.2	0.1
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>	0.4	0.2
<i>Drosera pilos</i>	0.1	0.1
<i>Ecdeiocolea monostachya</i>	0.5	4

<i>*Ehrharta longiflora</i>	0.5	0.1
<i>Glischrocaryon aureum</i>	0.5	0.2
<i>Gnephosis drummondii</i>	0.1	0.1
<i>Goodenia coerulea</i>	0.2	0.1
<i>Guichenotia sarotes</i>	0.3	0.1
<i>Hakea circumalata</i>	1.2	0.5
<i>Jacksonia foliosa</i>	0.4	0.2
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>	0.3	0.1
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)	0.2	0.1
<i>Lepidosperma tenue</i>	0.4	0.2
<i>Mesomelaena pseudostygia</i>	0.3	0.2
<i>Neurachne alopecuroidea</i>	0.2	0.2
<i>Opercularia vaginata</i>	0.1	0.2
<i>Patersonia graminea</i>	0.3	0.1
<i>Podolepis capillaris</i>	0.2	0.2
<i>Schoenus clandestinus</i>	0.1	0.1
<i>Schoenus unispiculatus</i>	0.2	0.1
<i>Stylidium androsaceum</i>	0.1	0.1
<i>Stylidium dichotomum</i>	0.2	0.1
<i>Thryptomene racemulosa</i>	0.2	0.1
<i>Trachymene cyanopetala</i>	0.2	0.1
<i>Trachymene ornata</i>	0.1	0.1
<i>Trachymene pilosa</i>	0.1	0.1
<i>*Ursinia anthemoides</i>	0.2	0.1
<i>Verticordia densiflora</i> var. <i>densiflora</i>	0.5	0.1

**PHOTOS**



Site Name: WE120  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 04/10/2012  
 GPS Location: WGS84 (Zone 50) 340671E 6747304N  
 Community: 4  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Clay Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Laterite, Ironstone  
 Vegetation Condition: 1 - Pristine  
 Disturbance: Exotic Weeds  
 Fire: >10 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: Allocasuarina campestris (2m,85%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	2	85
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.3	0.1
<i>Austrostipa variabilis</i>	0.3	0.1
<i>Borya sphaerocephala</i>	0.1	0.2
<i>Burchardia congesta</i>	0.3	0.1
<i>Caladenia flava</i>	0.1	0.1
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1	0.2
<i>Ecdeiocolea monostachya</i>	0.4	0.5
<i>Hakea orthorrhyncha</i> var. <i>filiformis</i>	1.2	0.5
<i>Homalosciadium homalocarpum</i>	0.1	0.1
* <i>Hypochoeris glabra</i>	0.1	0.1
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.2
<i>Lepidosperma tenue</i>	0.4	0.2
<i>Neurachne alopecuroidea</i>	0.3	0.1
<i>Opercularia vaginata</i>	0.2	0.2
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.1	0.1
<i>Santalum acuminatum</i>	2.5	1

<i>Stylidium androsaceum</i>	0.1	0.1
<i>Stylidium torticarpum</i> (3)		
<i>Thryptomene racemulosa</i>	0.3	0.2
<i>Thysanotus manglesianus</i>		0.1
<i>Trachymene ornata</i>	0.1	0.1
<i>Trachymene pilosa</i>	0.1	0.1
* <i>Ursinia anthemoides</i>	0.2	0.1
<i>Verticordia chrysanthella</i>	0.5	0.4
* <i>Vulpia myuros</i>	0.3	0.1
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.2	0.1

**PHOTOS**

Site Name: WE121  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 04/10/2012  
 GPS Location: WGS84 (Zone 50) 340699E 6747127N  
 Community: 4  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: SW  
 Soil Type: Clay Loam  
 Soil Colour: Pale Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm, 20-60mm  
 CF Types: Granite, Ironstone  
 Vegetation Condition: 2 - Excellent  
 Disturbance: Exotic Weeds  
 Fire: >10 years

#### **DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: *Acacia neurophylla* subsp. *erugata* (3.5m,20%)  
 Lower Stratum 1: \**Pentameris airoides* and *Opercularia vaginata* (0.2m,9%)

#### **SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia neurophylla</i> subsp. <i>neurophylla</i>	3.5	20
<i>Astroloma pedicellatum</i> ms	0.5	0.5
<i>Austrostipa elegantissima</i>	0.4	0.3
<i>Austrostipa variabilis</i>	0.4	0.2
<i>Blennospora drummondii</i>	0.1	0.1
* <i>Briza maxima</i>	0.2	0.1
<i>Burchardia congesta</i>	0.4	0.2
<i>Chamaescilla versicolor</i>	0.2	0.1
<i>Cryptandra myriantha</i>	0.4	0.1
* <i>Cuscuta epithymum</i>		0.1
<i>Dampiera altissima</i>	0.3	0.1
<i>Glischrocaryon aureum</i>	0.3	0.2
<i>Gnephosis drummondii</i>	0.1	0.2
<i>Gonocarpus nodulosus</i>	0.1	0.1
<i>Hakea orthorrhyncha</i> var. <i>filiformis</i>	0.8	0.2



<i>Hemigenia drummondii</i>	0.4	0.8
<i>Homalosciadium homalocarpum</i>	0.1	0.1
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.2	0.1
<i>Melaleuca radula</i>	0.8	0.2
<i>Neurachne alopecuroidea</i>	0.3	0.2
<i>Olearia ?dampieri</i>	1.5	0.5
<i>Opercularia vaginata</i>	0.2	4
* <i>Parentucellia latifolia</i>	0.1	0.1
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.2	5
<i>Podolepis lessonii</i>	0.2	0.4
<i>Rhodanthe manglesii</i>	0.2	0.1
<i>Rytidosperma acerosum</i>	0.3	0.2
<i>Stylidium torticarpum</i> (3)	0.2	0.4
<i>Thryptomene</i> sp. <i>Mingenew</i> (Diels & Pritzel 332) (3)		
<i>Thysanotus manglesianus</i>		0.1
<i>Waitzia acuminata</i> var. <i>acuminata</i>	0.2	0.2

**PHOTOS**

Site Name: WE122  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 04/10/2012  
 GPS Location: WGS84 (Zone 50) 340783E 6747271N  
 Community: 6  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Aspect: W  
 Soil Type: Light Clay  
 Soil Colour: Brown and Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Ironstone  
 Vegetation Condition: 1 - Pristine  
 Disturbance: Exotic Weeds  
 Fire: >10 years

**DOMINANT TAXA IN VEGETATION STRATA**

Upper Stratum 1: Eucalyptus loxophleba subsp. loxophleba (4m, 6%)  
 Mid Stratum 2: Melaleuca marginata (2m ,75%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	2.5	0.5
<i>Clematicissus angustissima</i>		0.1
* <i>Erodium cicutarium</i>	0.1	0.1
<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>	4	6
* <i>Hypochoeris glabra</i>	0.1	0.1
* <i>Lysimachia arvensis</i>	0.2	0.1
<i>Melaleuca marginata</i>	2	75
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	0.3	0.2
<i>Rhodanthe polycephala</i>	0.1	0.1
<i>Thysanotus pyramidalis</i>		
* <i>Trifolium campestre</i> var. <i>campestre</i>	0.1	0.1
* <i>Vulpia myuros</i>	0.2	0.2

**PHOTOS**



Site Name: WE127  
 Site Type: QUADRAT  
 Dimensions: 10m x 10m  
 Survey Date: 04/10/2012  
 GPS Location: WGS84 (Zone 50) 340992E 6747350N  
 Community: 4  
 Landform Type: Crest  
 Slope Class: Level (0 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: Pale Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 10-20%  
 CF Sizes: 2-6mm, 6-20mm  
 CF Types: Granite, Laterised Ironstone  
 Vegetation Condition: 1 - Pristine  
 Disturbance: Exotic Weeds  
 Fire: >10 years

**DOMINANT TAXA IN VEGETATION STRATA**

Mid Stratum 1: Allocasuarina campestris (2.5m,5%)  
 Lower Stratum 1: Melaleuca concreta and Calothamnus quadrifidus subsp. angustifolius (1.5m,8%)  
 Lower Stratum 2: Borya sphaerocephala (0.1m,5%)

**SPECIES LIST**

Taxon Name	Avg. Height	% Cover Alive
<i>Allocasuarina campestris</i>	2.5	5
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	0.3	0.2
<i>Astroloma pedicellatum</i> ms	0.4	0.5
<i>Austrostipa elegantissima</i>	0.7	0.2
<i>Borya sphaerocephala</i>	0.1	5
<i>Burchardia congesta</i>	0.3	0.2
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	1.5	1
<i>Chamaescilla versicolor</i>	0.1	0.1
<i>Cheilanthes adiantoides</i>	0.1	0.1
<i>Cryptandra myriantha</i>	0.3	0.1
<i>Dampiera teres</i>	0.4	0.2
<i>Gastrolobium callistachys</i>	0.6	0.2
<i>Glischrocaryon aureum</i>	0.4	0.2
<i>Grevillea biternata</i>	0.4	0.3



<i>Hemigenia drummondii</i>	0.4	0.2
* <i>Hypochaeris glabra</i>	0.1	0.1
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>	0.1	0.2
<i>Lepidosperma tenue</i>	0.4	0.4
<i>Melaleuca concreta</i>	1.5	7
<i>Melaleuca radula</i>	1	0.2
<i>Neurachne alopecuroidea</i>	0.2	0.1
<i>Opercularia vaginata</i>	0.1	0.1
<i>Podolepis lessonii</i>	0.1	0.1
<i>Sowerbaea laxiflora</i>	0.4	0.2
<i>Stylidium torticarpum</i> (3)	0.1	0.2
<i>Thryptomene racemulosa</i>	0.4	2
<i>Thryptomene</i> sp. <i>Mingenew</i> (Diels & Pritzel 332) (3)	0.4	0.5
<i>Thysanotus manglesianus</i>		0.1
<i>Trachymene pilosa</i>	0.1	0.1

**PHOTOS**

Site Name: SITE01  
 Site Type: AREA  
 Dimensions: m x m  
 Survey Date: 02/10/2012  
 GPS Location: GDA94 (Zone 50) 334653E 6750841N  
 Community: 4D  
 Landform Type: Flat  
 Slope Class: Level (0 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey-brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 5 - Degraded  
 Disturbance: Grazing, Exotic Weeds, Pig/Animal Disturbance  
 Fire: Unknown

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia acuminata</i>		
<i>Acacia saligna</i>		
* <i>Arctotheca calendula</i>		
* <i>Avena barbata</i>		
* <i>Bromus diandrus</i>		
* <i>Echium plantagineum</i>		
* <i>Erodium cicutarium</i>		
* <i>Monoculus monstrosus</i>		
* <i>Parentucellia latifolia</i>		
* <i>Petrorhagia dubia</i>		
<i>Podotheca gnaphalioides</i>		
* <i>Vulpia myuros</i>		



Site Name: SITE02  
 Site Type: AREA  
 Dimensions: m x m  
 Survey Date: 03/10/2012  
 GPS Location: GDA94 (Zone 50) 334701E 6750526N  
 Community: PC1D  
 Landform Type: Flat  
 Slope Class: Level (0 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: Grey-brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 4 - Good  
 Disturbance: Grazing, Limited Clearing, Exotic Weeds  
 Fire: Unknown

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia acuminata</i>		
<i>Arthropodium dyeri</i>		
* <i>Echium plantagineum</i>		
<i>Ptilotus manglesii</i>		

Site Name: SITE03  
 Site Type: AREA  
 Dimensions: m x m  
 Survey Date: 03/10/2012  
 GPS Location: GDA94 (Zone 50) 337718E 6750570N  
 Community: 5  
 Landform Type: Flat  
 Soil Type: Clay Loam  
 Soil Colour: grey-brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 4 - Good  
 Disturbance: Grazing, Exotic Weeds  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Acacia aciphylla</i>		
<i>Acacia tetragonophylla</i>		
<i>Allocasuarina campestris</i>		
<i>Baeckea decipiens</i> (1)		
<i>Grevillea biternata</i>		
<i>Tetraria microcarpa</i>		
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332) (3)		

Site Name: SITE04  
 Site Type: AREA  
 Dimensions: m x m  
 Survey Date: 03/10/2012  
 GPS Location: GDA94 (Zone 50) 341135E 6750890N  
 Community: 4  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: Brown  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 2-10%  
 CF Sizes: 6-20mm  
 CF Types: Granite, ?Sandstone (other)  
 Vegetation Condition: 3 - Very Good  
 Disturbance: Grazing, Exotic Weeds  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Allocasuarina campestris</i>		
<i>Amphipogon caricinus</i> var. <i>caricinus</i>		
<i>Ecdeiocolea monostachya</i>		
<i>Hakea orthorrhyncha</i> var. <i>filiformis</i>		
<i>Melaleuca concreta</i>		
<i>Melaleuca marginata</i>		
<i>Stylidium torticarpum</i> (3)		
<i>Thryptomene</i> sp. <i>Mingenew</i> (Diels & Pritzel 332) (3)		
<i>Trachymene ornata</i>		

Site Name: SITE05  
 Site Type: AREA  
 Dimensions: m x m  
 Survey Date: 04/10/2012  
 GPS Location: GDA94 (Zone 50) 341088E 6745813N  
 Community: 11  
 Landform Type: Mid Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sandy Loam  
 Soil Colour: yellow-brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 2 - Excellent  
 Disturbance: Grazing, Exotic Weeds  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Allocasuarina campestris</i>		
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms		
<i>Ecdeiocolea monostachya</i>		
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>		
<i>Melaleuca leuropoma</i>		
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> (3)		
<i>Scholtzia laxiflora</i>		

Site Name: SITE06  
 Site Type: AREA  
 Dimensions: m x m  
 Survey Date: 04/10/2012  
 GPS Location: GDA94 (Zone 50) 339550E 6744313N  
 Community: 1a  
 Landform Type: Mid Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: grey-brown (other)  
 Rock Outcrop: Laterite, >2% bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 20-60mm  
 CF Types: Laterite  
 Vegetation Condition: 2 - Excellent  
 Disturbance: Exotic Weeds  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Allocasuarina campestris</i>		
<i>Banksia fraseri</i> var. <i>fraseri</i>		
<i>Calothamnus longissimus</i>		
<i>Ecdeiocolea monostachya</i>		
<i>Eucalyptus conveniens</i>		
<i>Hakea auriculata</i>		
<i>Melaleuca radula</i>		
<i>Stylidium drummondianum</i> (3)		

Site Name: SITE07  
 Site Type: AREA  
 Dimensions: m x m  
 Survey Date: 04/10/2012  
 GPS Location: GDA94 (Zone 50) 339476E 6744289N  
 Community: 1a  
 Landform Type: Mid Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sandy Loam  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 2 - Excellent  
 Disturbance: Exotic Weeds  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>		
<i>Eucalyptus accedens</i>		
<i>Gompholobium laxum</i>		
<i>Hakea lissocarpa</i>		



Site Name: SITE08  
 Site Type: AREA  
 Dimensions: m x m  
 Survey Date: 04/10/2012  
 GPS Location: GDA94 (Zone 50) 339477E 6742796N  
 Community: 1a  
 Landform Type: Upper Slope  
 Slope Class: Very Gently Inclined (1 degree)  
 Soil Type: Sand  
 Soil Colour: Grey  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 2 - Excellent  
 Disturbance: Exotic Weeds  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Eucalyptus accedens</i>		
<i>Hakea lissocarpa</i>		
<i>Olearia rudis</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		

Site Name: SITE09  
 Site Type: AREA  
 Dimensions: m x m  
 Survey Date: 04/10/2012  
 GPS Location: GDA94 (Zone 50) 339564E 6742912N  
 Community: 8  
 Landform Type: Upper Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Clay Loam  
 Soil Colour: Grey-brown (other)  
 Rock Outcrop: Laterite, 2-10% bedrock exposed  
 CF Abundance: 20-50%  
 CF Sizes: 20-60mm  
 CF Types: Laterite  
 Vegetation Condition: 1 - Pristine  
 Fire: >10

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Allocasuarina campestris</i>		
<i>Banksia carlinoides</i>		
<i>Eucalyptus conveniens</i>		
<i>Gastrolobium spinosum</i>		
<i>Hakea auriculata</i>		
<i>Hakea stenocarpa</i>		
<i>Melaleuca aspalathoides</i>		
<i>Petrophile shuttleworthiana</i>		
<i>Stylidium drummondianum</i> (3)		

Site Name: SITE10  
 Site Type: AREA  
 Dimensions: m x m  
 Survey Date: 05/10/2012  
 GPS Location: GDA94 (Zone 50) 341469E 6748497N  
 Community: 11  
 Landform Type: Lower Slope  
 Slope Class: Gently Inclined (3 degrees)  
 Soil Type: Sandy Loam  
 Soil Colour: Yellow-brown (other)  
 Rock Outcrop: No bedrock exposed  
 CF Abundance: 0%  
 Vegetation Condition: 3 - Very Good  
 Disturbance: Exotic Weeds  
 Fire: >5

**DOMINANT TAXA IN VEGETATION STRATA****SPECIES LIST**

<b>Taxon Name</b>	<b>Avg. Height</b>	<b>% Cover Alive</b>
<i>Allocasuarina campestris</i>		
<i>Ecdeiocolea monostachya</i>		
<i>Hakea circumalata</i>		
<i>Melaleuca leuropoma</i>		
<i>Scholtzia laxiflora</i>		
* <i>Vulpia myuros</i>		

## Appendix I: Location Details of Conservation Significant Flora and Introduced Flora Recorded within the West Erregulla Study Area

Taxon	Conservation Code	Easting	Northing	Location	Plant Count	Observation Date	Vegetation Type (VT)
<i>Acacia ?idiomorpha</i>	-	334635	6748026	WE076		24/11/2011	9
<i>Acacia isoneura</i> subsp. <i>isoneura</i>	3	341260	6748366	WE117		5/10/12	5
<i>Allocasuarina grevilleoides</i>	3	337271	6739728		2	14/11/12	7a
<i>Allocasuarina grevilleoides</i>	3	337417	6740155		200	14/11/12	7a
<i>Allocasuarina grevilleoides</i>	3	337541	6740162		200	14/11/12	7a
<i>Allocasuarina grevilleoides</i>	3	337832	6740614		200	21/11/11	8
<i>Allocasuarina grevilleoides</i>	3	337715	6740616	WE056		21/11/11	8
<i>Allocasuarina grevilleoides</i>	3	337710	6740764		200	21/11/11	7a
<i>Allocasuarina grevilleoides</i>	3	338163	6742253		100	22/11/11	8
<i>Allocasuarina grevilleoides</i>	3	337660	6742287		100	23/10/12	8
<i>Allocasuarina grevilleoides</i>	3	337087	6742279		80	8/11/12	13a
<i>Allocasuarina grevilleoides</i>	3	336728	6740968		10	15/11/12	7a
<i>Allocasuarina grevilleoides</i>	3	336394	6740971		20	15/11/12	13a
<i>Allocasuarina grevilleoides</i>	3	336493	6740997		2	15/11/12	7a
<i>Allocasuarina grevilleoides</i>	3	336396	6740998		20	15/11/12	7a
<i>Allocasuarina grevilleoides</i>	3	336386	6741024		10	15/11/12	7a
<i>Allocasuarina grevilleoides</i>	3	337732	6742129		50	23/10/12	8
<i>Allocasuarina grevilleoides</i>	3	337678	6742180		30	23/10/12	7b
<i>Allocasuarina grevilleoides</i>	3	337071	6742281		10	8/11/12	13a
<i>Allocasuarina grevilleoides</i>	3	337775	6742349		50	23/10/12	7a
<i>Allocasuarina grevilleoides</i>	3	337683	6742353		50	23/10/12	7b
<i>Allocasuarina grevilleoides</i>	3	336986	6742359		5	8/11/12	13a
<i>Allocasuarina grevilleoides</i>	3	338114	6742376		50	9/10/12	8
<i>Allocasuarina grevilleoides</i>	3	338112	6742406		5	9/10/12	7a
<i>Allocasuarina grevilleoides</i>	3	336942	6742401		15	8/11/12	13a
<i>Allocasuarina grevilleoides</i>	3	336940	6742403		100	8/11/12	13a
<i>Allocasuarina grevilleoides</i>	3	338219	6742439		20	13/11/12	7a
<i>Allocasuarina grevilleoides</i>	3	337728	6742455		150	8/11/12	7b
<i>Allocasuarina grevilleoides</i>	3	338115	6742488		20	9/10/12	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Allocasuarina grevilleoides</i>	3	337680	6742482		20	8/11/12	7b
<i>Allocasuarina grevilleoides</i>	3	337679	6742499		1	8/11/12	7b
<i>Allocasuarina grevilleoides</i>	3	338141	6742575		20	9/10/12	8
<i>Allocasuarina grevilleoides</i>	3	337319	6742625		2	8/11/12	13a
<i>Allocasuarina grevilleoides</i>	3	336543	6742633		150	14/11/12	7b
<i>Allocasuarina grevilleoides</i>	3	338240	6742793		3	9/10/12	8
<i>Allocasuarina grevilleoides</i>	3	338218	6742793		50	9/10/12	8
<i>Allocasuarina grevilleoides</i>	3	338216	6742844		30	9/10/12	8
<i>Allocasuarina grevilleoides</i>	3	338262	6742862		1	9/10/12	8
<i>Allocasuarina grevilleoides</i>	3	338215	6742891		20	9/10/12	8
<i>Banksia fraseri</i> var. ? <i>crebra</i>	3	336290	6743745				7b
<i>Banksia scabrella</i>	4	332241	6742470		55	16/11/2012	13a
<i>Banksia scabrella</i>	4	332265	6742502		10	16/11/2012	13a
<i>Banksia scabrella</i>	4	332397	6741673	WE083		25/11/2011	13a
<i>Banksia scabrella</i>	4	332403	6742508		10	16/11/2012	13a
<i>Banksia scabrella</i>	4	332540	6742501		10	16/11/2012	13a
<i>Banksia scabrella</i>	4	332606	6742133		30	16/11/2012	10
<i>Banksia scabrella</i>	4	332655	6742499		5	16/11/2012	13a
<i>Banksia scabrella</i>	4	332668	6742048		10	16/11/2012	10
<i>Banksia scabrella</i>	4	332672	6741732		5	16/11/2012	13a
<i>Banksia scabrella</i>	4	332688	6744110		1	7/11/2012	13a
<i>Banksia scabrella</i>	4	332692	6741673		5	16/11/2012	13a
<i>Banksia scabrella</i>	4	332712	6741776		40	16/11/2012	10
<i>Banksia scabrella</i>	4	332761	6744106		3	7/11/2012	13a
<i>Banksia scabrella</i>	4	332770	6744289		1	7/11/2012	13a
<i>Banksia scabrella</i>	4	332779	6741665		5	16/11/2012	13a
<i>Banksia scabrella</i>	4	332803	6742470		40	16/11/2012	13a
<i>Banksia scabrella</i>	4	332811	6740837		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	332822	6745628	WE104		12/09/2012	12
<i>Banksia scabrella</i>	4	332870	6741670		1	16/11/2012	10
<i>Banksia scabrella</i>	4	332874	6742497		5	16/11/2012	13a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	332884	6740762		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	332890	6740943		4	8/11/2012	7b
<i>Banksia scabrella</i>	4	332904	6742274		80	16/11/2012	13a
<i>Banksia scabrella</i>	4	332916	6744492		1	7/11/2012	10
<i>Banksia scabrella</i>	4	332931	6741851		5	16/11/2012	10
<i>Banksia scabrella</i>	4	332931	6742399		5	16/11/2012	7a
<i>Banksia scabrella</i>	4	332932	6742116		20	16/11/2012	13a
<i>Banksia scabrella</i>	4	332937	6741732		10	16/11/2012	10
<i>Banksia scabrella</i>	4	332938	6742282		10	16/11/2012	13a
<i>Banksia scabrella</i>	4	332965	6741109		100	8/11/2012	13a
<i>Banksia scabrella</i>	4	332966	6744452		1	7/11/2012	13a
<i>Banksia scabrella</i>	4	332972	6746024		100	11/10/2012	12
<i>Banksia scabrella</i>	4	332983	6740768		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	333056	6744643		1	7/11/2012	10
<i>Banksia scabrella</i>	4	333065	6740783		1	8/11/2012	7b
<i>Banksia scabrella</i>	4	333115	6741074		50	8/11/2012	13a
<i>Banksia scabrella</i>	4	333123	6740808		50	8/11/2012	13a
<i>Banksia scabrella</i>	4	333140	6744939		2	7/11/2012	10
<i>Banksia scabrella</i>	4	333148	6744874		1	7/11/2012	10
<i>Banksia scabrella</i>	4	333153	6744836		2	7/11/2012	10
<i>Banksia scabrella</i>	4	333158	6741056		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	333162	6739767	WE108		11/09/2012	13a
<i>Banksia scabrella</i>	4	333164	6740803		3	8/11/2012	13a
<i>Banksia scabrella</i>	4	333189	6744821		100	7/11/2012	10
<i>Banksia scabrella</i>	4	333274	6744400	WE049		26/10/2011	13a
<i>Banksia scabrella</i>	4	333290	6741147		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	333312	6746031		20	11/10/2012	12
<i>Banksia scabrella</i>	4	333322	6740835		50	8/11/2012	13a
<i>Banksia scabrella</i>	4	333366	6740823		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	333369	6745085		5	7/11/2012	10
<i>Banksia scabrella</i>	4	333459	6744897		3	11/10/2012	10



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	333470	6745582	WE027		25/10/2011	10
<i>Banksia scabrella</i>	4	333471	6744871		1	7/11/2012	10
<i>Banksia scabrella</i>	4	333480	6745081		2	7/11/2012	10
<i>Banksia scabrella</i>	4	333489	6744860		1	11/10/2012	10
<i>Banksia scabrella</i>	4	333540	6744933		7		10
<i>Banksia scabrella</i>	4	333542	6740845		3	8/11/2012	13a
<i>Banksia scabrella</i>	4	333551	6741816		100	9/11/2012	7a
<i>Banksia scabrella</i>	4	333562	6744858		1	7/11/2012	10
<i>Banksia scabrella</i>	4	333583	6741945		2	9/11/2012	7a
<i>Banksia scabrella</i>	4	333591	6740851		80	8/11/2012	13a
<i>Banksia scabrella</i>	4	333605	6744182	WE050		27/10/2011	13b
<i>Banksia scabrella</i>	4	333622	6741839		1	9/11/2012	13a
<i>Banksia scabrella</i>	4	333624	6745724		20	6/11/2012	12
<i>Banksia scabrella</i>	4	333626	6740835		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	333633	6744852		6		10
<i>Banksia scabrella</i>	4	333667	6744832		2	7/11/2012	10
<i>Banksia scabrella</i>	4	333684	6745070		3	7/11/2012	13a
<i>Banksia scabrella</i>	4	333697	6745038		30	7/11/2012	13a
<i>Banksia scabrella</i>	4	333737	6745264	WE088		25/11/2011	13b
<i>Banksia scabrella</i>	4	333747	6742076		1	9/11/2012	7a
<i>Banksia scabrella</i>	4	333752	6745040		3	7/11/2012	10
<i>Banksia scabrella</i>	4	333762	6741206		3	8/11/2012	13a
<i>Banksia scabrella</i>	4	333836	6740783		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	333888	6741192		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	333927	6740753		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	333951	6742786		40	11/10/2012	7a
<i>Banksia scabrella</i>	4	333952	6741924		5	11/10/2012	7b
<i>Banksia scabrella</i>	4	333953	6741186		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	333989	6742799		5	11/10/2012	7a
<i>Banksia scabrella</i>	4	334008	6741991		5	11/10/2012	8
<i>Banksia scabrella</i>	4	334012	6741700		3	11/10/2012	7b

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	334089	6745129		2	7/11/2012	13a
<i>Banksia scabrella</i>	4	334094	6740741		20	8/11/2012	7a
<i>Banksia scabrella</i>	4	334094	6741631		1	11/10/2012	7b
<i>Banksia scabrella</i>	4	334127	6741857		2	9/11/2012	7b
<i>Banksia scabrella</i>	4	334130	6741864		50	9/11/2012	7b
<i>Banksia scabrella</i>	4	334131	6741107		3	8/11/2012	13a
<i>Banksia scabrella</i>	4	334135	6741623	WE012		28/09/2011	7b
<i>Banksia scabrella</i>	4	334136	6741451	WE010		28/09/2011	7a
<i>Banksia scabrella</i>	4	334159	6742291		5	16/11/2012	7a
<i>Banksia scabrella</i>	4	334172	6741851		1	9/11/2012	7b
<i>Banksia scabrella</i>	4	334172	6742399		10	16/11/2012	7b
<i>Banksia scabrella</i>	4	334200	6740742		4	8/11/2012	7a
<i>Banksia scabrella</i>	4	334229	6745142		4	7/11/2012	13a
<i>Banksia scabrella</i>	4	334241	6742154		20	16/11/2012	10
<i>Banksia scabrella</i>	4	334282	6741549		1	10/10/2012	7b
<i>Banksia scabrella</i>	4	334284	6741724	WE013		29/09/2011	7b
<i>Banksia scabrella</i>	4	334293	6745128		2	7/11/2012	13a
<i>Banksia scabrella</i>	4	334301	6744041		2	11/10/2012	13a
<i>Banksia scabrella</i>	4	334304	6742071		2	9/11/2012	10
<i>Banksia scabrella</i>	4	334313	6742082		20	9/11/2012	10
<i>Banksia scabrella</i>	4	334325	6744381		3	8/11/2012	13a
<i>Banksia scabrella</i>	4	334334	6744528		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	334340	6742389		5	16/11/2012	10
<i>Banksia scabrella</i>	4	334348	6741865		2	9/11/2012	13a
<i>Banksia scabrella</i>	4	334358	6742350		35	16/11/2012	10
<i>Banksia scabrella</i>	4	334359	6745333		2	9/11/2012	13a
<i>Banksia scabrella</i>	4	334366	6744609		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	334373	6744661		20	8/11/2012	13a
<i>Banksia scabrella</i>	4	334388	6739849		10	14/11/2012	13a
<i>Banksia scabrella</i>	4	334395	6739878		40	14/11/2012	13a
<i>Banksia scabrella</i>	4	334395	6744989		2	7/11/2012	13a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	334396	6744662		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	334411	6745162		1	9/11/2012	13a
<i>Banksia scabrella</i>	4	334429	6743978		3		13a
<i>Banksia scabrella</i>	4	334433	6743998		1	11/10/2012	13a
<i>Banksia scabrella</i>	4	334433	6745364		100	9/11/2012	13a
<i>Banksia scabrella</i>	4	334458	6745347		3	9/11/2012	13a
<i>Banksia scabrella</i>	4	334460	6743942		2	11/10/2012	13a
<i>Banksia scabrella</i>	4	334460	6743977		2	11/10/2012	13a
<i>Banksia scabrella</i>	4	334461	6744383		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	334483	6742383		10	16/11/2012	10
<i>Banksia scabrella</i>	4	334493	6745101		2	9/11/2012	13a
<i>Banksia scabrella</i>	4	334498	6740034	WE006		27/09/2011	13a
<i>Banksia scabrella</i>	4	334498	6744735		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	334506	6743977		2	11/10/2012	13a
<i>Banksia scabrella</i>	4	334518	6739851		15	14/11/2012	13a
<i>Banksia scabrella</i>	4	334524	6740223		5	14/11/2012	13a
<i>Banksia scabrella</i>	4	334536	6743882		2		13a
<i>Banksia scabrella</i>	4	334536	6743942		4	11/10/2012	13a
<i>Banksia scabrella</i>	4	334536	6744424		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	334555	6743918		5	11/10/2012	13a
<i>Banksia scabrella</i>	4	334558	6745096		2	9/11/2012	13a
<i>Banksia scabrella</i>	4	334563	6743932		1		13a
<i>Banksia scabrella</i>	4	334566	6743953		1	11/10/2012	13a
<i>Banksia scabrella</i>	4	334582	6740050		25	14/11/2012	13a
<i>Banksia scabrella</i>	4	334585	6741890		180	15/11/2012	13a
<i>Banksia scabrella</i>	4	334594	6745337		3	9/11/2012	13a
<i>Banksia scabrella</i>	4	334595	6744886		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	334603	6743899		1	11/10/2012	13a
<i>Banksia scabrella</i>	4	334614	6745323		75	9/11/2012	13a
<i>Banksia scabrella</i>	4	334615	6742149		30	15/11/2012	10
<i>Banksia scabrella</i>	4	334624	6744436		50	8/11/2012	13a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	334649	6740218		5	14/11/2012	13a
<i>Banksia scabrella</i>	4	334650	6745014		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	334651	6740181		75	14/11/2012	13a
<i>Banksia scabrella</i>	4	334656	6741857		20	15/11/2012	13a
<i>Banksia scabrella</i>	4	334656	6744989		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	334670	6745202		3	9/11/2012	13a
<i>Banksia scabrella</i>	4	334675	6745055		1	9/11/2012	10
<i>Banksia scabrella</i>	4	334683	6745055		16	9/11/2012	10
<i>Banksia scabrella</i>	4	334684	6744810		2	8/11/2012	10
<i>Banksia scabrella</i>	4	334684	6744842		2	8/11/2012	10
<i>Banksia scabrella</i>	4	334687	6739846		5	14/11/2012	13a
<i>Banksia scabrella</i>	4	334687	6744480		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	334687	6744713		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	334692	6740868		1		13a
<i>Banksia scabrella</i>	4	334692	6745127		1	9/11/2012	10
<i>Banksia scabrella</i>	4	334693	6739948		10	14/11/2012	13a
<i>Banksia scabrella</i>	4	334698	6741864		10	15/11/2012	13a
<i>Banksia scabrella</i>	4	334702	6740123		5	14/11/2012	13a
<i>Banksia scabrella</i>	4	334703	6743855		3	11/10/2012	13a
<i>Banksia scabrella</i>	4	334707	6744609		1	8/11/2012	10
<i>Banksia scabrella</i>	4	334716	6743862		2	11/10/2012	13a
<i>Banksia scabrella</i>	4	334721	6744788		20	8/11/2012	10
<i>Banksia scabrella</i>	4	334733	6742161		20	15/11/2012	7a
<i>Banksia scabrella</i>	4	334748	6743791		2		13a
<i>Banksia scabrella</i>	4	334793	6747581		20	5/11/2012	8
<i>Banksia scabrella</i>	4	334798	6742130		85	15/11/2012	7a
<i>Banksia scabrella</i>	4	334810	6742798		10	14/11/2012	13a
<i>Banksia scabrella</i>	4	334853	6741859		10	15/11/2012	13a
<i>Banksia scabrella</i>	4	334879	6741786	WE018		30/09/2011	13a
<i>Banksia scabrella</i>	4	334909	6747473		2	6/11/2012	8
<i>Banksia scabrella</i>	4	334912	6742162		10	15/11/2012	13a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	334954	6747475		1	6/11/2012	8
<i>Banksia scabrella</i>	4	334972	6740835		1		7a
<i>Banksia scabrella</i>	4	335038	6742796		5	14/11/2012	10
<i>Banksia scabrella</i>	4	335052	6743930		55	15/11/2012	13a
<i>Banksia scabrella</i>	4	335068	6741888		80	15/11/2012	13a
<i>Banksia scabrella</i>	4	335123	6743900		10	15/11/2012	10
<i>Banksia scabrella</i>	4	335123	6744172		12	15/11/2012	10
<i>Banksia scabrella</i>	4	335138	6741867		5	15/11/2012	13a
<i>Banksia scabrella</i>	4	335156	6739107				13a
<i>Banksia scabrella</i>	4	335163	6744200		5	15/11/2012	10
<i>Banksia scabrella</i>	4	335209	6743589	WE017		29/09/2011	7b
<i>Banksia scabrella</i>	4	335225	6743906		10	15/11/2012	7b
<i>Banksia scabrella</i>	4	335238	6741862		5	15/11/2012	13a
<i>Banksia scabrella</i>	4	335249	6743933		40	15/11/2012	7b
<i>Banksia scabrella</i>	4	335290	6742163		5	15/11/2012	10
<i>Banksia scabrella</i>	4	335294	6741860		5	15/11/2012	13a
<i>Banksia scabrella</i>	4	335294	6742598		5	14/11/2012	13a
<i>Banksia scabrella</i>	4	335319	6741890		75	15/11/2012	13a
<i>Banksia scabrella</i>	4	335365	6742800		5	14/11/2012	13a
<i>Banksia scabrella</i>	4	335366	6747972		1		13b
<i>Banksia scabrella</i>	4	335369	6747994		2	11/10/2012	13b
<i>Banksia scabrella</i>	4	335376	6747956		4	11/10/2012	13b
<i>Banksia scabrella</i>	4	335391	6742129		50	15/11/2012	13a
<i>Banksia scabrella</i>	4	335396	6747886		2	11/10/2012	13b
<i>Banksia scabrella</i>	4	335401	6741862		5	15/11/2012	13a
<i>Banksia scabrella</i>	4	335414	6747807		20	11/10/2012	13b
<i>Banksia scabrella</i>	4	335418	6747815		4	11/10/2012	13b
<i>Banksia scabrella</i>	4	335422	6747749		2	11/10/2012	13b
<i>Banksia scabrella</i>	4	335436	6747710		5	11/10/2012	8
<i>Banksia scabrella</i>	4	335441	6742770		20	14/11/2012	13a
<i>Banksia scabrella</i>	4	335457	6742159		5	15/11/2012	13a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	335459	6747652		3	11/10/2012	8
<i>Banksia scabrella</i>	4	335488	6747601		2	11/10/2012	8
<i>Banksia scabrella</i>	4	335518	6745229		2	7/11/2012	7b
<i>Banksia scabrella</i>	4	335518	6745254		1	7/11/2012	7b
<i>Banksia scabrella</i>	4	335522	6745301		1	7/11/2012	7b
<i>Banksia scabrella</i>	4	335522	6745334		1	7/11/2012	7b
<i>Banksia scabrella</i>	4	335523	6745386		1	7/11/2012	13b
<i>Banksia scabrella</i>	4	335523	6745454		2	7/11/2012	7b
<i>Banksia scabrella</i>	4	335523	6745569		1	7/11/2012	7b
<i>Banksia scabrella</i>	4	335550	6742162		5	15/11/2012	13a
<i>Banksia scabrella</i>	4	335551	6745377		20	7/11/2012	13b
<i>Banksia scabrella</i>	4	335562	6741864		10	15/11/2012	13a
<i>Banksia scabrella</i>	4	335570	6747338		1	11/10/2012	8
<i>Banksia scabrella</i>	4	335590	6742126		50	15/11/2012	13a
<i>Banksia scabrella</i>	4	335591	6741890		80	15/11/2012	13a
<i>Banksia scabrella</i>	4	335608	6744974		3	7/11/2012	7b
<i>Banksia scabrella</i>	4	335656	6745711		1	7/11/2012	11
<i>Banksia scabrella</i>	4	335667	6741863		5	15/11/2012	13a
<i>Banksia scabrella</i>	4	335674	6740066		2	11/10/2012	7a
<i>Banksia scabrella</i>	4	335717	6742159		2	15/11/2012	10
<i>Banksia scabrella</i>	4	335730	6744980		2	7/11/2012	7b
<i>Banksia scabrella</i>	4	335740	6744199		10	15/11/2012	7b
<i>Banksia scabrella</i>	4	335807	6744992		2	7/11/2012	14
<i>Banksia scabrella</i>	4	335830	6740069		3	11/10/2012	7a
<i>Banksia scabrella</i>	4	335835	6744170		25	15/11/2012	7b
<i>Banksia scabrella</i>	4	335868	6740760	WE090		26/11/2011	7b
<i>Banksia scabrella</i>	4	335891	6744202		20	15/11/2012	7b
<i>Banksia scabrella</i>	4	335891	6745775		2	7/11/2012	13b
<i>Banksia scabrella</i>	4	335938	6747299		100	22/10/2012	7b
<i>Banksia scabrella</i>	4	335957	6744978		1	7/11/2012	11
<i>Banksia scabrella</i>	4	335992	6745828		100	7/11/2012	13b



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	335995	6745846		3	7/11/2012	13b
<i>Banksia scabrella</i>	4	336010	6745887		4	7/11/2012	13b
<i>Banksia scabrella</i>	4	336016	6742159		1	15/11/2012	10
<i>Banksia scabrella</i>	4	336045	6745963		8	7/11/2012	13b
<i>Banksia scabrella</i>	4	336055	6742128		50	15/11/2012	10
<i>Banksia scabrella</i>	4	336084	6746071		1	7/11/2012	11
<i>Banksia scabrella</i>	4	336085	6742600		20	14/11/2012	13a
<i>Banksia scabrella</i>	4	336097	6742628		60	14/11/2012	13a
<i>Banksia scabrella</i>	4	336130	6741895		50	15/11/2012	10
<i>Banksia scabrella</i>	4	336146	6742798		5	14/11/2012	7b
<i>Banksia scabrella</i>	4	336187	6744984		2	7/11/2012	11
<i>Banksia scabrella</i>	4	336215	6742610		50	14/11/2012	13a
<i>Banksia scabrella</i>	4	336230	6747335		1	6/11/2012	7b
<i>Banksia scabrella</i>	4	336269	6747474		10	5/11/2012	11
<i>Banksia scabrella</i>	4	336280	6743771				7b
<i>Banksia scabrella</i>	4	336299	6747451		1	6/11/2012	11
<i>Banksia scabrella</i>	4	336300	6746887		2	6/11/2012	11
<i>Banksia scabrella</i>	4	336313	6742599		20	14/11/2012	13a
<i>Banksia scabrella</i>	4	336332	6747479		1	6/11/2012	11
<i>Banksia scabrella</i>	4	336375	6741185		10	15/11/2012	13a
<i>Banksia scabrella</i>	4	336383	6746063		2	7/11/2012	11
<i>Banksia scabrella</i>	4	336386	6742799		10	14/11/2012	13a
<i>Banksia scabrella</i>	4	336402	6745548	WE041		25/10/2011	7b
<i>Banksia scabrella</i>	4	336413	6742600		50	14/11/2012	13a
<i>Banksia scabrella</i>	4	336442	6745263		2	7/11/2012	13b
<i>Banksia scabrella</i>	4	336467	6741196		10	15/11/2012	13a
<i>Banksia scabrella</i>	4	336468	6740974		60	15/11/2012	7a
<i>Banksia scabrella</i>	4	336477	6745875		1	7/11/2012	11
<i>Banksia scabrella</i>	4	336493	6740997		5	15/11/2012	7a
<i>Banksia scabrella</i>	4	336493	6745839		6	7/11/2012	11
<i>Banksia scabrella</i>	4	336495	6747788		20	12/11/2012	11

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	336500	6745384		6	7/11/2012	13b
<i>Banksia scabrella</i>	4	336509	6741964		20	15/11/2012	13a
<i>Banksia scabrella</i>	4	336511	6747820		15	12/11/2012	13b
<i>Banksia scabrella</i>	4	336512	6745444		2	7/11/2012	13b
<i>Banksia scabrella</i>	4	336528	6745505		3	7/11/2012	13b
<i>Banksia scabrella</i>	4	336532	6741926		5	15/11/2012	13a
<i>Banksia scabrella</i>	4	336569	6747863		50	5/11/2012	11
<i>Banksia scabrella</i>	4	336573	6741203		5	15/11/2012	7a
<i>Banksia scabrella</i>	4	336595	6740999		5	15/11/2012	7a
<i>Banksia scabrella</i>	4	336645	6739534		1		7a
<i>Banksia scabrella</i>	4	336681	6741196		10	15/11/2012	7a
<i>Banksia scabrella</i>	4	336685	6740924		80	15/11/2012	7a
<i>Banksia scabrella</i>	4	336694	6741001		10	15/11/2012	7a
<i>Banksia scabrella</i>	4	336702	6741170		80	15/11/2012	7a
<i>Banksia scabrella</i>	4	336713	6739261		1	11/10/2012	7a
<i>Banksia scabrella</i>	4	336775	6739265		3		7a
<i>Banksia scabrella</i>	4	336828	6741207		10	15/11/2012	13a
<i>Banksia scabrella</i>	4	336837	6741012		10	15/11/2012	13a
<i>Banksia scabrella</i>	4	336848	6747716		1	6/11/2012	11
<i>Banksia scabrella</i>	4	336873	6747746		30	5/11/2012	11
<i>Banksia scabrella</i>	4	336922	6741203		5	15/11/2012	13a
<i>Banksia scabrella</i>	4	336942	6741175		25	15/11/2012	10
<i>Banksia scabrella</i>	4	336963	6741004		5	15/11/2012	13a
<i>Banksia scabrella</i>	4	336978	6746572		50	23/10/2012	11
<i>Banksia scabrella</i>	4	336986	6742359		20	8/11/2012	13a
<i>Banksia scabrella</i>	4	337036	6747636		20	12/11/2012	7b
<i>Banksia scabrella</i>	4	337065	6742525		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	337066	6740970		60	15/11/2012	13a
<i>Banksia scabrella</i>	4	337071	6744189		1		8
<i>Banksia scabrella</i>	4	337087	6740999		5	15/11/2012	10
<i>Banksia scabrella</i>	4	337128	6744723		1		7a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	337135	6742545		7	8/11/2012	13a
<i>Banksia scabrella</i>	4	337159	6742571		2	8/11/2012	7b
<i>Banksia scabrella</i>	4	337171	6742571		300	8/11/2012	7b
<i>Banksia scabrella</i>	4	337248	6746383		200	23/10/2012	7b
<i>Banksia scabrella</i>	4	337260	6744514		3	10/10/2012	13b
<i>Banksia scabrella</i>	4	337268	6740153		80	14/11/2012	7a
<i>Banksia scabrella</i>	4	337269	6739399		30	14/11/2012	13a
<i>Banksia scabrella</i>	4	337280	6744512		11	10/10/2012	13b
<i>Banksia scabrella</i>	4	337280	6744642		6	10/10/2012	13b
<i>Banksia scabrella</i>	4	337288	6740161		20	14/11/2012	7a
<i>Banksia scabrella</i>	4	337299	6739201		10	14/11/2012	13a
<i>Banksia scabrella</i>	4	337299	6739885		5	14/11/2012	7a
<i>Banksia scabrella</i>	4	337300	6739405		5	14/11/2012	13a
<i>Banksia scabrella</i>	4	337301	6740040		5	14/11/2012	7a
<i>Banksia scabrella</i>	4	337304	6739000		10	14/11/2012	10
<i>Banksia scabrella</i>	4	337316	6744598		50	9/10/2012	13b
<i>Banksia scabrella</i>	4	337321	6744436		10	9/10/2012	7a
<i>Banksia scabrella</i>	4	337331	6742038		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	337332	6740971		80	15/11/2012	10
<i>Banksia scabrella</i>	4	337358	6744348		1		7a
<i>Banksia scabrella</i>	4	337363	6744876	WE038		25/10/2011	13b
<i>Banksia scabrella</i>	4	337391	6741931		2	8/11/2012	10
<i>Banksia scabrella</i>	4	337428	6742809		1	13/11/2012	7b
<i>Banksia scabrella</i>	4	337504	6741003		5	15/11/2012	10
<i>Banksia scabrella</i>	4	337545	6742591		3	8/11/2012	7b
<i>Banksia scabrella</i>	4	337564	6741170		2	15/11/2012	13a
<i>Banksia scabrella</i>	4	337570	6742905		50	13/11/2012	7b
<i>Banksia scabrella</i>	4	337571	6738985		40	14/11/2012	13a
<i>Banksia scabrella</i>	4	337572	6739993		30	14/11/2012	7a
<i>Banksia scabrella</i>	4	337574	6739550		60	14/11/2012	7a
<i>Banksia scabrella</i>	4	337577	6741204		1	15/11/2012	10

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	337582	6747820		2	12/10/2012	7b
<i>Banksia scabrella</i>	4	337592	6742538		4	8/11/2012	7b
<i>Banksia scabrella</i>	4	337599	6739723		10	14/11/2012	7a
<i>Banksia scabrella</i>	4	337599	6739852		5	14/11/2012	7a
<i>Banksia scabrella</i>	4	337600	6740129		5	14/11/2012	7a
<i>Banksia scabrella</i>	4	337601	6739617		15	14/11/2012	7a
<i>Banksia scabrella</i>	4	337601	6744671		10	10/10/2012	13b
<i>Banksia scabrella</i>	4	337602	6738956		15	14/11/2012	13a
<i>Banksia scabrella</i>	4	337602	6739321		10	14/11/2012	7a
<i>Banksia scabrella</i>	4	337605	6739985		10	14/11/2012	7a
<i>Banksia scabrella</i>	4	337634	6744526		3	10/10/2012	13b
<i>Banksia scabrella</i>	4	337663	6744543		3		7a
<i>Banksia scabrella</i>	4	337665	6744487		1		7a
<i>Banksia scabrella</i>	4	337670	6742793		50	13/11/2012	7b
<i>Banksia scabrella</i>	4	337676	6742932		10	13/11/2012	7b
<i>Banksia scabrella</i>	4	337690	6747865		2	12/10/2012	8
<i>Banksia scabrella</i>	4	337691	6744316		2	10/10/2012	7a
<i>Banksia scabrella</i>	4	337714	6747677		4	12/10/2012	7b
<i>Banksia scabrella</i>	4	337717	6741883		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	337718	6746999		50	13/11/2012	7b
<i>Banksia scabrella</i>	4	337736	6747679		2		7b
<i>Banksia scabrella</i>	4	337737	6747652		6	12/10/2012	13b
<i>Banksia scabrella</i>	4	337764	6747650		12	12/10/2012	13b
<i>Banksia scabrella</i>	4	337767	6747676		30	12/10/2012	7b
<i>Banksia scabrella</i>	4	337780	6747117		20	13/11/2012	13b
<i>Banksia scabrella</i>	4	337795	6746919		200	23/10/2012	13b
<i>Banksia scabrella</i>	4	337800	6746911		20	13/11/2012	7b
<i>Banksia scabrella</i>	4	337804	6747605		5	12/10/2012	13b
<i>Banksia scabrella</i>	4	337826	6747002		30	13/11/2012	13b
<i>Banksia scabrella</i>	4	337833	6747622		15	12/10/2012	13b
<i>Banksia scabrella</i>	4	337855	6747578		3		13b

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	337871	6747546		1	12/10/2012	7b
<i>Banksia scabrella</i>	4	337880	6742754		50	13/11/2012	8
<i>Banksia scabrella</i>	4	337910	6746915		50	13/11/2012	13b
<i>Banksia scabrella</i>	4	337923	6747001		30	13/11/2012	13b
<i>Banksia scabrella</i>	4	337929	6742151		2	8/11/2012	7a
<i>Banksia scabrella</i>	4	337950	6742650		150	13/11/2012	8
<i>Banksia scabrella</i>	4	337970	6742599		5	13/11/2012	7b
<i>Banksia scabrella</i>	4	338000	6740690		10	12/12/2012	7a
<i>Banksia scabrella</i>	4	338000	6740720		20	12/10/2012	7a
<i>Banksia scabrella</i>	4	338000	6740870		60	12/10/2012	7a
<i>Banksia scabrella</i>	4	338010	6741850		3	8/11/2012	7a
<i>Banksia scabrella</i>	4	338028	6740662		20	12/10/2012	7a
<i>Banksia scabrella</i>	4	338043	6742569		30	13/11/2012	8
<i>Banksia scabrella</i>	4	338062	6747001		20	13/11/2012	11
<i>Banksia scabrella</i>	4	338073	6746733		50	23/10/2012	7b
<i>Banksia scabrella</i>	4	338090	6742632		50	13/11/2012	8
<i>Banksia scabrella</i>	4	338118	6741170		1	15/11/2012	10
<i>Banksia scabrella</i>	4	338125	6746712		50	23/10/2012	13a
<i>Banksia scabrella</i>	4	338126	6740666		10	12/10/2012	7a
<i>Banksia scabrella</i>	4	338130	6746952		40	13/11/2012	11
<i>Banksia scabrella</i>	4	338135	6747160		30	13/11/2012	11
<i>Banksia scabrella</i>	4	338142	6740117		10	13/11/2012	7a
<i>Banksia scabrella</i>	4	338169	6740002		5	13/11/2012	7a
<i>Banksia scabrella</i>	4	338170	6746999		50	13/11/2012	11
<i>Banksia scabrella</i>	4	338175	6740017		50	13/11/2012	7a
<i>Banksia scabrella</i>	4	338176	6747874		10	12/10/2012	13b
<i>Banksia scabrella</i>	4	338196	6741716		1	8/11/2012	7a
<i>Banksia scabrella</i>	4	338197	6747886		1	12/10/2012	13b
<i>Banksia scabrella</i>	4	338202	6747350		1		7b
<i>Banksia scabrella</i>	4	338210	6742504		250	13/11/2012	8
<i>Banksia scabrella</i>	4	338260	6747889		4	12/10/2012	13b

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	338278	6747373		2	12/10/2012	11
<i>Banksia scabrella</i>	4	338288	6740306		10	13/11/2012	7a
<i>Banksia scabrella</i>	4	338336	6747432		1	12/10/2012	13b
<i>Banksia scabrella</i>	4	338348	6740008		50	13/11/2012	7a
<i>Banksia scabrella</i>	4	338350	6747897		1	12/10/2012	13b
<i>Banksia scabrella</i>	4	338380	6742133		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	338381	6742117		10	8/11/2012	13a
<i>Banksia scabrella</i>	4	338383	6747505		5	12/10/2012	13b
<i>Banksia scabrella</i>	4	338386	6742344		10	13/11/2012	13a
<i>Banksia scabrella</i>	4	338390	6743792		1		8
<i>Banksia scabrella</i>	4	338394	6743250		1	9/10/2012	11
<i>Banksia scabrella</i>	4	338422	6747885		10	12/10/2012	13b
<i>Banksia scabrella</i>	4	338440	6742406		20	13/11/2012	13a
<i>Banksia scabrella</i>	4	338441	6741911		1	8/11/2012	7a
<i>Banksia scabrella</i>	4	338454	6747508		1	12/10/2012	13b
<i>Banksia scabrella</i>	4	338459	6744951				8
<i>Banksia scabrella</i>	4	338474	6741944		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	338480	6743248		4		8
<i>Banksia scabrella</i>	4	338480	6743267		2		8
<i>Banksia scabrella</i>	4	338480	6747550		10	12/10/2012	11
<i>Banksia scabrella</i>	4	338485	6744883		10	9/10/2012	8
<i>Banksia scabrella</i>	4	338500	6742448		2	13/11/2012	7a
<i>Banksia scabrella</i>	4	338505	6742152		20	8/11/2012	13a
<i>Banksia scabrella</i>	4	338526	6742022		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	338532	6743902		20	9/10/2012	8
<i>Banksia scabrella</i>	4	338533	6741392	WE054		20/11/2011	13a
<i>Banksia scabrella</i>	4	338543	6748729				13b
<i>Banksia scabrella</i>	4	338551	6748250				13b
<i>Banksia scabrella</i>	4	338563	6742142		50	8/11/2012	13a
<i>Banksia scabrella</i>	4	338568	6743780		2		8
<i>Banksia scabrella</i>	4	338571	6741202		5	15/11/2012	10



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	338576	6746810				13a
<i>Banksia scabrella</i>	4	338582	6742096		2	8/11/2012	13a
<i>Banksia scabrella</i>	4	338592	6745850				11
<i>Banksia scabrella</i>	4	338601	6745358				13a
<i>Banksia scabrella</i>	4	338604	6742228		5	13/11/2012	13a
<i>Banksia scabrella</i>	4	338616	6742131		1	8/11/2012	13a
<i>Banksia scabrella</i>	4	338620	6747002		8	13/11/2012	13a
<i>Banksia scabrella</i>	4	338648	6743658		1	9/10/2012	8
<i>Banksia scabrella</i>	4	338650	6742479				7a
<i>Banksia scabrella</i>	4	338651	6743765		1	9/10/2012	8
<i>Banksia scabrella</i>	4	338658	6741002		20	15/11/2012	10
<i>Banksia scabrella</i>	4	338658	6742019				13a
<i>Banksia scabrella</i>	4	338668	6742386		10	13/11/2012	7a
<i>Banksia scabrella</i>	4	338679	6740971		25	15/11/2012	10
<i>Banksia scabrella</i>	4	338700	6741212		20	15/11/2012	10
<i>Banksia scabrella</i>	4	338701	6740807		5	12/10/2012	7a
<i>Banksia scabrella</i>	4	338707	6746507	WE060		21/11/2011	13a
<i>Banksia scabrella</i>	4	338725	6740990		10	12/10/2012	10
<i>Banksia scabrella</i>	4	338739	6740925		6		10
<i>Banksia scabrella</i>	4	338740	6740960		3	12/10/2012	10
<i>Banksia scabrella</i>	4	338750	6747003		2	13/11/2012	11
<i>Banksia scabrella</i>	4	338757	6742160		20	13/11/2012	7a
<i>Banksia scabrella</i>	4	338770	6741001		10	15/11/2012	10
<i>Banksia scabrella</i>	4	338782	6740899		80	12/10/2012	10
<i>Banksia scabrella</i>	4	338791	6740839		20	12/10/2012	10
<i>Banksia scabrella</i>	4	338800	6742284		50	13/11/2012	7a
<i>Banksia scabrella</i>	4	338813	6741206		5	15/11/2012	10
<i>Banksia scabrella</i>	4	338815	6740963		5	12/10/2012	10
<i>Banksia scabrella</i>	4	338828	6742311		20	13/11/2012	7a
<i>Banksia scabrella</i>	4	338838	6740761		2	12/10/2012	10
<i>Banksia scabrella</i>	4	338838	6740900		20	12/10/2012	10

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Banksia scabrella</i>	4	338849	6740990		5	12/10/2012	10
<i>Banksia scabrella</i>	4	338851	6741168		80	15/11/2012	10
<i>Banksia scabrella</i>	4	338857	6741007		20	15/11/2012	10
<i>Banksia scabrella</i>	4	338861	6740930		3		10
<i>Banksia scabrella</i>	4	338865	6740267		10	13/11/2012	7a
<i>Banksia scabrella</i>	4	339775	6747438		10	4/10/2012	13a
<i>Banksia scabrella</i>	4	339875	6748412				C
<i>Banksia scabrella</i>	4	341137	6745502		1	9/11/2012	13b
<i>Banksia scabrella</i>	4	341165	6745580		1	9/11/2012	13b
<i>Beyeria gardneri</i>	3	333307	6746004		2	5/11/12	12
<i>Calytrix chrysantha</i>	4	331905	6742013			25/11/11	7a
<i>Cryptandra intermedia</i> (atypical variant)		333740	6742099		50	9/11/12	7a
<i>Cryptandra intermedia</i> (atypical variant)		333616	6746045		20	6/11/12	3
<i>Cryptandra intermedia</i> (atypical variant)		333623	6746053		50	6/11/12	3
<i>Cryptandra intermedia</i> (atypical variant)		333466	6747135	WEC098		12/09/12	3
<i>Cryptandra intermedia</i> (atypical variant)		333369	6747183		10	5/11/12	12
<i>Cryptandra intermedia</i> (atypical variant)		334152	6748498		50	5/11/12	14
<i>Eucalyptus abdita</i>	2	338859	6742985		1	10/10/12	8
<i>Eucalyptus abdita</i>	2	338336	6742847				8
<i>Eucalyptus abdita</i>	2	338836	6743142		5	4/10/12	8
<i>Eucalyptus abdita</i>	2	338860	6743712		2	22/11/11	8
<i>Eucalyptus abdita</i>	2	338845	6743919		1	5/10/12	1b
<i>Eucalyptus abdita</i>	2	338309	6744695				8
<i>Eucalyptus abdita</i>	2	338309	6744695				8
<i>Eucalyptus ?abdita</i>		337895	6744480		1		11

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Eucalyptus crispata</i>	T	334077	6742226		1	24/10/11	8
<i>Eucalyptus crispata</i>	T	337912	6744075		1	10/10/12	8
<i>Eucalyptus crispata</i>	T	334226	6748255		15	26/10/11	10
<i>Eucalyptus ?crispata</i>	T	337309	6744257		1	10/10/12	8
<i>Eucalyptus leprophloia</i>	T	338309	6744695				8
<i>Eucalyptus leprophloia</i>	T	340423	6746186				C
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	332362	6740575		10	25/11/2011	13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	332965	6741109		5	8/11/2012	13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333124	6745108		4	7/11/2012	12
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333335	6745894		10	5/11/2012	12
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333363	6745852		10	5/11/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333372	6745922		8	11/10/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333376	6745840		10	6/11/2012	12
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333415	6745907		20	11/10/2012	3
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333418	6745989		10	11/10/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333441	6744879		3	11/10/2012	8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333458	6744624				13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333473	6745892		5	11/10/2012	3

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333493	6745788		10	11/10/2012	3
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333512	6744784		3		8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333514	6745751		2	6/11/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333518	6744808		5	11/10/2012	8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333524	6744806		5	11/10/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333545	6745787		20	26/10/2011	3
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333584	6744778		1	11/10/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333657	6745780		3	11/10/2012	12
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333923	6741894		7	11/10/2012	8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333928	6742762		5	11/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333945	6741795		20	11/10/2012	8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333959	6742880		4	11/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	333962	6741706		10	11/10/2012	8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334080	6742216		3	16/11/2012	8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334100	6742220		5	11/10/2012	8

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<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334167	6741608		3	11/10/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334269	6744898		10	7/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334286	6742600		3	16/11/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334288	6741370		20	26/09/2011	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334293	6741409		10	10/10/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334309	6741456		5	10/10/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334384	6744021		1	11/10/2012	13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334435	6740810		1	14/11/2012	13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334436	6743954		2	11/10/2012	13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334437	6740950		3	14/11/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334468	6741570		1	14/11/2012	13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334510	6741630		3	14/11/2012	13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334511	6740856		1	26/11/2011	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	334980	6741903		15	9/11/2012	13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	335516	6740171		10	11/10/2012	7a

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<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	335935	6740065		1	11/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336025	6747132		2	22/10/2012	8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336066	6747124		7	22/10/2012	8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336129	6740065		10	11/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336145	6740057		3		7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336315	6739856		14		7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336380	6739829		5		7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336386	6739885		100	11/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336459	6739828		30	11/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336550	6739537		20	11/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336566	6739525		4	11/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336692	6739168		10	11/10/2012	13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336855	6748185		3	12/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	336905	6747323		3	5/11/2012	11
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337016	6747074		2	23/10/2012	7b



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<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337020	6747002		7	13/11/2012	8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337050	6746929		15	13/11/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337066	6747006		2	13/11/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337087	6742279		15	8/11/2012	13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337115	6742217		1	8/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337116	6746997		1	13/11/2012	11
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337120	6746938		3	13/11/2012	11
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337136	6738956		12	12/10/2012	8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337137	6742212		6	8/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337306	6746453		1	22/11/2011	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337568	6742067		20	23/10/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337762	6746101		2	12/12/2012	8
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	337841	6742643		1	13/11/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338036	6741170		6	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338068	6741204		5	15/11/2012	10

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<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338073	6746733		1	23/10/2012	7b
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338125	6746712		3	23/10/2012	13a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338154	6741203		25	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338195	6741167		25	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338258	6741201		10	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338260	6741173		8	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338269	6740896		5	12/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338275	6741949		50	22/11/2011	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338277	6740970		10	15/11/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338341	6740967		25	15/11/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338349	6740957		2	12/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338350	6740872		22	12/12/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338354	6740902		8	12/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338355	6741003		40	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338369	6741204		25	15/11/2012	10

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<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338371	6741174		18	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338380	6740930		23		7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338381	6740956		10	12/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338384	6740718		5	21/11/2011	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338387	6740720		1	12/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338426	6740962		4	12/10/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338447	6741172		15	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338460	6740963		5	12/10/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338468	6740693		6	12/12/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338469	6740988		15	12/10/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338473	6740900		15	12/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338473	6741205		40	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338475	6741005		50	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338482	6740840		5	12/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338484	6740955		1	12/10/2012	10

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<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338492	6740971		15	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338510	6740876		15	12/12/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338516	6740957		1	12/10/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338527	6741171		20	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338530	6740693		2	12/12/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338534	6740882		20	12/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338556	6740952		1	12/10/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338570	6740865		7	12/12/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338585	6741002		30	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338589	6740970		19	15/11/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338595	6740816		30	12/10/2012	7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338599	6740962		5	12/10/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338611	6740991		20	12/10/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338614	6740929		9		10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338622	6740967		10	12/10/2012	10

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<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338645	6740841		20	12/10/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338665	6740811				7a
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338667	6740882		10	12/12/2012	10
<i>Eucalyptus macrocarpa</i> subsp. <i>elachantha</i>	4	338678	6740938		5		10
<i>Eucalyptus macrocarpa</i> x <i>pyriformis</i>	3	332409	6740648	WEC082	1	25/11/11	7b
<i>Eucalyptus macrocarpa</i> x <i>pyriformis</i>	3	334115	6742439		12	16/11/12	8
<i>Eucalyptus macrocarpa</i> x <i>pyriformis</i>	3	333542	6745040		6	7/11/12	10
<i>Eucalyptus</i> sp. (unidentified 2)		338317	6743302	WEC053		27/10/11	11
<i>Eucalyptus</i> sp. (unidentified 2)		338315	6743313			26/10/11	11
<i>Guichenotia impudica</i>	3	338102	6744760		6		11
<i>Haemodorum loratum</i>	3	332442	6742092		1	16/11/12	10
<i>Haemodorum loratum</i>	3	332644	6742101		1	16/11/12	10
<i>Haemodorum loratum</i>	3	332799	6740838		2	8/11/12	13a
<i>Haemodorum loratum</i>	3	332939	6741771		1	16/11/12	10
<i>Haemodorum loratum</i>	3	333029	6744586		1	7/11/12	10
<i>Haemodorum loratum</i>	3	333040	6744613		1	7/11/12	10
<i>Haemodorum loratum</i>	3	333323	6745916		1	5/11/12	12
<i>Haemodorum loratum</i>	3	333324	6745235		1	7/11/12	12
<i>Haemodorum loratum</i>	3	333342	6745883		1	5/11/12	7b
<i>Haemodorum loratum</i>	3	333349	6745889		1	6/11/12	7b
<i>Haemodorum loratum</i>	3	333376	6745840		1	6/11/12	12
<i>Haemodorum loratum</i>	3	333378	6745874		2	6/11/12	7b
<i>Haemodorum loratum</i>	3	333393	6745914		1	6/11/12	3
<i>Haemodorum loratum</i>	3	333412	6745853		1	6/11/12	7b

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<i>Haemodorum loratum</i>	3	333436	6745822		4	6/11/12	12
<i>Haemodorum loratum</i>	3	333524	6745759		1	6/11/12	7b
<i>Haemodorum loratum</i>	3	334059	6741878		1	9/11/12	7b
<i>Haemodorum loratum</i>	3	334186	6742336		1	16/11/12	10
<i>Haemodorum loratum</i>	3	334240	6743947		1		9
<i>Haemodorum loratum</i>	3	334321	6742054		1	9/11/12	10
<i>Haemodorum loratum</i>	3	335157	6742802		1	14/11/12	10
<i>Haemodorum loratum</i>	3	335384	6741853		3	15/11/12	13a
<i>Haemodorum loratum</i>	3	335471	6744200		1	15/11/12	10
<i>Haemodorum loratum</i>	3	335536	6742164		1	15/11/12	13a
<i>Haemodorum loratum</i>	3	335590	6744197		1	15/11/12	7b
<i>Haemodorum loratum</i>	3	335922	6741889		2	15/11/12	10
<i>Haemodorum loratum</i>	3	336055	6742128		1	15/11/12	10
<i>Haemodorum loratum</i>	3	336369	6739323		2	21/11/11	7a
<i>Haemodorum loratum</i>	3	336646	6739502		1		7a
<i>Haemodorum loratum</i>	3	336906	6741205		1	15/11/12	13a
<i>Haemodorum loratum</i>	3	337016	6741004		1	15/11/12	10
<i>Haemodorum loratum</i>	3	337029	6741205		1	15/11/12	10
<i>Haemodorum loratum</i>	3	337133	6741007		2	15/11/12	10
<i>Haemodorum loratum</i>	3	337185	6741169		1	15/11/12	10
<i>Haemodorum loratum</i>	3	337198	6741205		4	15/11/12	10
<i>Haemodorum loratum</i>	3	337264	6741203		1	15/11/12	10
<i>Haemodorum loratum</i>	3	337272	6739251		1	14/11/12	13a
<i>Haemodorum loratum</i>	3	337301	6739424		1	14/11/12	10
<i>Haemodorum loratum</i>	3	337322	6741204		1	15/11/12	10
<i>Haemodorum loratum</i>	3	337510	6739786		1	14/11/12	7a
<i>Haemodorum loratum</i>	3	337600	6738951		2	14/11/12	13a
<i>Haemodorum loratum</i>	3	337730	6741210		2	15/11/12	10
<i>Haemodorum loratum</i>	3	337813	6739147		3	21/11/11	7a
<i>Haemodorum loratum</i>	3	338025	6740779		1	12/10/12	7a
<i>Haemodorum loratum</i>	3	338065	6740820		1		7a



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<i>Haemodorum loratum</i>	3	338147	6740091		2	13/11/12	7a
<i>Haemodorum loratum</i>	3	338355	6740811		3	12/10/12	7a
<i>Haemodorum loratum</i>	3	338370	6740786		3		7a
<i>Haemodorum loratum</i>	3	338719	6740844		3	12/10/12	10
<i>Haemodorum loratum</i>	3	338724	6740777		2	12/10/12	7a
<i>Haemodorum loratum</i>	3	338753	6740653		5	12/10/12	7a
<i>Haemodorum loratum</i>	3	338760	6740690		1	12/12/12	7a
<i>Haemodorum loratum</i>	3	338760	6740752		3		7a
<i>Haemodorum loratum</i>	3	338781	6740779		1	12/10/12	10
<i>Haemodorum loratum</i>	3	338786	6743473		1	8/10/12	8
<i>Haemodorum loratum</i>	3	338791	6740839		2	12/10/12	10
<i>Haemodorum loratum</i>	3	341172	6745537		2	9/11/12	13b
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	337818	6739137		1	21/11/11	7a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	337302	6739685		1	14/11/12	7a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	337605	6739695		2	14/11/12	7a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	337707	6739791		5	21/11/11	7a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	334450	6739852		1	14/11/12	13a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	338327	6739973		2	13/11/12	7a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	338340	6740003		2	13/11/12	7a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	337572	6739993		2	14/11/12	7a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	338162	6740030		1	13/11/12	7a

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<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	338146	6740193		1	13/11/12	7a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	338242	6740299		1	13/11/12	7a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	333322	6740835		1	8/11/12	13a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	336649	6741005		1	15/11/12	7a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	336372	6741182		1	15/11/12	13a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	333525	6741830		1	9/11/12	7a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	333638	6741832		1	9/11/12	13a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	335124	6741864		1	15/11/12	13a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	336520	6745292		1	24/11/11	13b
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	334725	6744884		1	8/11/12	13a
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	334655	6745047		1	9/11/12	10
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	335551	6745377		1	7/11/12	13b
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687)	3	336004	6745846		1	7/11/12	13b
<i>Lasiopetalum ogilvieanum</i>	1	332278	6742813		1	25/11/11	7a
<i>Lasiopetalum ogilvieanum</i>	1	332397	6741673	WEC083		25/11/11	13a
<i>Lasiopetalum ogilvieanum</i>	1	332411	6741706		5	25/11/11	13a
<i>Lasiopetalum ogilvieanum</i>	1	332474	6741756		1	25/11/11	13a
<i>Lasiopetalum ogilvieanum</i>	1	332898	6742493		6	16/11/12	7a

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<i>Lasiopetalum ogilvieanum</i>	1	332956	6741078		4	8/11/12	7b
<i>Lasiopetalum ogilvieanum</i>	1	332960	6741089		2	8/11/12	13a
<i>Lasiopetalum ogilvieanum</i>	1	332972	6740778		8	8/11/12	13a
<i>Lasiopetalum ogilvieanum</i>	1	332974	6741112		5	8/11/12	13a
<i>Lasiopetalum ogilvieanum</i>	1	332976	6740771		3	8/11/12	13a
<i>Lasiopetalum ogilvieanum</i>	1	332989	6741071		2	8/11/12	13a
<i>Lasiopetalum ogilvieanum</i>	1	333053	6741055		6	8/11/12	13a
<i>Lasiopetalum ogilvieanum</i>	1	333092	6741074		5	8/11/12	13a
<i>Lasiopetalum ogilvieanum</i>	1	333115	6741074		5	8/11/12	13a
<i>Lasiopetalum ogilvieanum</i>	1	333394	6745252		1	25/11/11	13a
<i>Lasiopetalum ogilvieanum</i>	1	333423	6745239				13a
<i>Lasiopetalum ogilvieanum</i>	1	334019	6741701		6	11/10/12	7b
<i>Lasiopetalum ogilvieanum</i>	1	334026	6741675		10	11/10/12	8
<i>Lasiopetalum ogilvieanum</i>	1	334028	6741678		10	11/10/12	7b
<i>Lasiopetalum ogilvieanum</i>	1	334043	6741670		10	11/10/12	8
<i>Lasiopetalum ogilvieanum</i>	1	334052	6741676		5	11/10/12	7b
<i>Lasiopetalum ogilvieanum</i>	1	334055	6741665		4	11/10/12	8
<i>Lasiopetalum ogilvieanum</i>	1	334078	6741655		5	11/10/12	7b
<i>Lasiopetalum ogilvieanum</i>	1	334179	6745066				8
<i>Lasiopetalum ogilvieanum</i>	1	334318	6745205				13a
<i>Lasiopetalum ogilvieanum</i>	1	334753	6741818		5	26/11/11	13a
<i>Leucopogon</i> sp.		333716	6745914		50	6/11/12	3
<i>Malleostemon decipiens</i>	1	337718	6750570		200	3/10/12	5
<i>Malleostemon decipiens</i>	1	335261	6750535	SITE03	100	3/10/12	4
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	332600	6744526		30	11/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	332640	6744965	WE103		13/09/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	332643	6742132		10	16/11/2012	10

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	332775	6744405	WE048		27/10/2011	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	332874	6744475		20	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	332916	6744492		10	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333004	6744547		20	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333029	6744586		3	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333130	6746009		50	11/10/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333157	6744785		5	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333162	6745083		5	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333196	6745067		1	11/10/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333197	6746005		20	11/10/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333212	6745060		23	11/10/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333217	6744997		3	11/10/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333231	6745048		20	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333231	6745982		1000	11/10/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333240	6745004		3		10

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333266	6746580	WE099		12/09/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333281	6746586		10	6/11/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333293	6744985		8	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333300	6744954		10	11/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333309	6744927		4	11/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333312	6746031		20	11/10/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333314	6746652		20	6/11/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333323	6745916		200	5/11/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333323	6745998		40	6/11/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333340	6745934		20	6/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333358	6744843		100	7/11/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333358	6746137		50	6/11/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333360	6746194		500	5/11/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333364	6745852		300	6/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333369	6744942		12	7/11/2012	10

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333372	6745922		40	11/10/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333379	6745995		100	11/10/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333388	6744906		20	11/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333403	6746280		15	6/11/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333404	6746623		10	6/11/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333412	6745853		8	6/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333413	6746357		2	6/11/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333418	6745989		50	11/10/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333456	6745801		2	6/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333470	6745582	WE027		25/10/2011	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333493	6745788		50	11/10/2012	3
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333582	6745743		6	6/11/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333657	6745780		20	11/10/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333698	6745795		100+	11/10/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333725	6745067		20	7/11/2012	13a



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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333747	6745791		5	6/11/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333767	6745839		50	11/10/2012	12
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333786	6745045		50	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333795	6745048		50	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333843	6745032		30	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333877	6744744		2	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333921	6744947		20	11/10/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	333921	6745009		30	11/10/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334010	6745062		1000	11/10/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334013	6745001		1000	11/10/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334043	6745025		50	11/10/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334070	6744707		5	11/10/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334095	6748049	WE032		26/10/2011	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334254	6743945		3	11/10/2012	9
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334279	6743993		20		7a

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334289	6744906		8	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334297	6744725		4	7/11/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334406	6742152		10	16/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334410	6743965		3	11/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334412	6743983		7		13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334417	6744006		2	11/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334428	6743965		40	11/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334463	6742350		15	16/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334715	6747379		7	6/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334746	6742630		250	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334751	6742599		100	14/11/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334896	6742799		200	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334908	6742631		200	14/11/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334937	6742605		200	14/11/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334964	6742773		90	14/11/2012	10

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	334995	6742802		50	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335029	6742596		200	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335070	6742158		10	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335134	6742128		60	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335172	6742250	WE019		30/09/2011	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335232	6742598		50	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335262	6742161		50	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335278	6744815	WE016	50	29/09/2011	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335504	6742633		250	14/11/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335507	6742802		50	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335508	6748428		50	5/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335539	6742598		200	14/11/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335545	6742771		100	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335548	6748221		4	5/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335548	6748448		3	5/11/2012	11

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335653	6742799		50	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335658	6747183		2	11/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335661	6742587		200	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335702	6747203		6		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335719	6747218		10	11/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335729	6742159		20	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335774	6742602		100	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335787	6742772		100	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335813	6742159		100	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335836	6742802		100	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335852	6741890		15	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335873	6742630		250	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335883	6742130		150	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335890	6742598		100	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335910	6744169		50	15/11/2012	10

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335927	6742164		10	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335963	6742800		100	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335967	6744199		100	15/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335980	6744021		55	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	335998	6742599		200	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336000	6740093		10	11/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336024	6744985		3	7/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336080	6742773		170	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336081	6742800		50	14/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336088	6740741	WE089		25/11/2011	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336115	6747142		10	22/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336134	6742161		10	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336153	6747236		20	5/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336187	6744984		30	7/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336190	6747203		3	6/11/2012	7b

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336237	6742773		20	14/11/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336250	6745040		300	7/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336321	6745026		30	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336321	6748551		100	5/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336333	6748576		15	6/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336373	6745176		200	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336387	6748694		6	5/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336389	6745125		40	7/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336411	6745192		20	7/11/2012	13b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336420	6746678		10	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336429	6748464		20	12/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336439	6748584		40	6/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336444	6748351		5	12/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336455	6748503		30	12/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336467	6746580		10	13/11/2012	7b



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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336467	6748739		20	5/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336482	6748698		8	5/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336522	6742153		20	15/11/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336557	6748377		10	6/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336572	6746792		3	6/11/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336590	6746778		20	13/11/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336604	6748355		20	5/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336606	6739491		4	11/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336639	6748074		8	6/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336653	6748195		6	6/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336690	6746687		50	13/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336729	6746650		20	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336755	6744014		2		13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336757	6748201		20	6/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336790	6747113		20	13/11/2012	7b

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336830	6746662		20	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336830	6746718		50	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336830	6747097		4	6/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336843	6747123		20	13/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336861	6747186		8	6/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336870	6747477		6	6/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336882	6744083		5		13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336888	6748140		40	12/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336905	6747323		100	5/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336922	6748087		50	12/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336931	6748133		200	12/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336948	6747431		10	12/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336980	6744000		50	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336980	6744190		50	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336980	6744379		50	10/10/2012	7a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	336982	6748067		200	12/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337000	6747645		5	12/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337006	6744117		5	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337007	6744202		6	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337009	6744485		3	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337009	6748510	WE080		24/11/2011	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337010	6743999		7	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337010	6744052		15	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337011	6744218		10	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337011	6747763		10	12/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337014	6744296		10	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337015	6744141		5	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337017	6744415		12	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337018	6744391		6	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337022	6747910		15	12/11/2012	10

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337025	6740970		5	15/11/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337025	6747965		200	12/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337037	6744005		60		13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337043	6744271		20		13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337043	6746701		50	13/11/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337054	6747060		200	23/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337060	6747389		10	12/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337067	6744200		40	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337070	6744045		30	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337071	6744189		15		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337073	6744353		40	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337073	6744493		10	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337094	6744427		20	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337096	6744000		3	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337096	6744328		2	10/10/2012	7a

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337096	6744369		10	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337097	6744050		3	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337097	6744498		5	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337098	6744519		4	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337099	6744091		5	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337101	6744213		2	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337104	6744124		10	10/10/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337106	6744143		3	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337108	6746998		200	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337120	6746938		50	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337128	6744000		40		13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337128	6744128		50		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337133	6744507		35		7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337140	6741172		10	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337157	6744122		50	10/10/2012	8

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337160	6744000		50	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337161	6744397		30	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337161	6744550		15	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337190	6744087		35	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337190	6744187		20	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337190	6744470		9	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337190	6744525		5	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337190	6744825		5	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337200	6746809		50	13/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337212	6746999		50	13/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337217	6742155		100	8/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337223	6744624		30	9/10/2012	13b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337225	6744209		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337248	6742100		20	8/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337250	6746745		50	13/11/2012	7b



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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337251	6744335		110	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337258	6744087		30	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337259	6744226		20	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337280	6744000		20	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337280	6744100		10	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337280	6744312		15	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337280	6744406		5	10/10/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337280	6744506		18	10/10/2012	13b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337306	6746453		200	22/11/2011	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337322	6743976		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337340	6746781		20	13/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337490	6746897		10	13/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337600	6744165		10	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337601	6744034		10	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337601	6744101		10	10/10/2012	8

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337628	6744012		2	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337657	6744071		2		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337664	6744436		22		7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337700	6744067		20	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337720	6744052		10	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337720	6744102		5	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337820	6743907		5	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337870	6747152		50	13/11/2012	13b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337877	6743871		50	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337877	6743932		6		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337889	6743912		20	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337940	6743962		200	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337949	6743903		6	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337966	6747536		40	12/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337970	6747511		35		8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337971	6747832		10		7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	337978	6743990		11	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338019	6747244		15	12/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338020	6742674		20	13/11/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338027	6747127		20	13/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338033	6747217		20	11/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338044	6744932	WE040		25/10/2011	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338060	6743002		4	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338091	6743012		40	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338150	6744000		3	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338165	6747305		3	12/10/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338176	6743010		20	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338178	6743932		80	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338180	6743300		65	9/10/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338203	6743209		50	9/10/2012	11

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338205	6743030		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338205	6743074		20	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338208	6743930		3		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338212	6743300		200	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338212	6743315		7		11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338229	6743937		12	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338235	6743351		8	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338238	6743404		20	9/10/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338240	6743100		16	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338240	6743200		8	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338246	6740271		20	13/11/2012	13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338268	6743285		50	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338269	6743132		200	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338270	6743300		30	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338270	6743400		10	9/10/2012	7b

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338270	6743942		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338275	6743255		50	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338297	6743447		50	9/10/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338304	6743102		6		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338305	6743203		5		11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338317	6743302	WE053		27/10/2011	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338324	6743143		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338324	6743303		5	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338330	6744155		5	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338331	6743216		10	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338332	6743381		10	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338332	6743487		27	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338332	6743988		2	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338358	6743528		1000	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338360	6743170		45	9/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338360	6743300		10	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338363	6743368		200	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338370	6747241		20	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338388	6743296		10	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338390	6743566		25		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338391	6743478		16		11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338393	6747246	WE064		21/11/2011	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338394	6743250		30	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338396	6743345		6		11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338406	6747197		20	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338409	6743909		5		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338416	6742899		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338416	6743000		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338416	6743100		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338416	6743200		5	9/10/2012	11



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338416	6743275		5	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338418	6743928		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338420	6747204		50	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338423	6743386		3	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338423	6743494		4	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338425	6744271		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338426	6743554		1	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338439	6746998		50	13/11/2012	7b
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338448	6743725		20	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338450	6743300		30	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338450	6743448		20	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338450	6744208		15	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338450	6744495		60	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338452	6744134		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338456	6743300		20	9/10/2012	11

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338473	6743386		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338476	6743300		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338479	6743443		50	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338480	6743267		7		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338482	6743662		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338483	6744213		100	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338483	6744494		100	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338486	6743906		20	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338490	6744359		1	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338500	6742382		20	13/11/2012	7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338508	6743263		23	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338508	6743400		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338508	6743558		15	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338510	6744115		10	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338510	6744200		17	10/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338510	6744300		30	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338510	6744400		16	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338510	6744500		19	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338510	6744700		4	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338511	6743699		14	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338511	6743801		1	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338511	6743909		15	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338514	6743195		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338527	6744328		30	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338530	6746971		20	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338532	6744389		40	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338534	6743870		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338536	6744101		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338538	6743781		100	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338540	6743372		20	9/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338540	6744000		20	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338541	6743298		40	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338541	6743572		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338541	6743673		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338541	6744271		1	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338541	6747002		200	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338543	6743525		20	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338545	6743468		30	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338546	6744493		40	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338563	6743679		4		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338567	6744030		3		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338567	6744335		6		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338567	6747320				11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338568	6743806		5		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338570	6744495		11		8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338571	6743518		35		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338572	6744274		1		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338575	6744169		10		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338575	6744330	WE042		26/10/2011	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338589	6744024		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338590	6744097		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338590	6746978		50	13/11/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338594	6744049		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338595	6743286		1	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338595	6744298		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338596	6743389		15	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338597	6744439		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338597	6744579		1	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338600	6744200		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338600	6744417		1	9/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338601	6745358				13a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338602	6743480		3	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338604	6743619		3	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338604	6743779		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338609	6744888				8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338611	6741171		10	15/11/2012	10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338617	6744398				8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338625	6743928				8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338625	6744474	EM-51			8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338629	6743359		7	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338629	6744331		40	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338630	6743852		37	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338630	6743939		25	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338630	6744033		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338630	6744136		60	9/10/2012	8



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338630	6744200		30	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338630	6745656				11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338631	6744215				8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338631	6744601		20	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338632	6743506		60	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338632	6743696		60	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338634	6743450				8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338636	6744750				8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338642	6743659	EM-50			8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338646	6743942		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338657	6743316		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338659	6744184		30	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338662	6743632		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338663	6744748		20	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338664	6743407		50	9/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338665	6743065		1	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338665	6744368		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338667	6743522		50	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338680	6740722				7a
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338686	6747883		30		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338690	6743364		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338690	6743507		10	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338690	6743649		5	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338690	6744145		5	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338690	6744200		30	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338690	6744330		10	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338690	6744600		5	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338690	6744639		11	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338690	6744796		42	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338690	6744840		10	10/10/2012	8

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338692	6743255		10	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338713	6744037		12	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338714	6744150		20	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338715	6744831		100	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338715	6744893		100	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338717	6743483		20	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338718	6743239		15	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338718	6743595		40	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338719	6743394		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338720	6743300		25	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338720	6743449		20	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338720	6743557		30	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338720	6744200		100	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338720	6744950		30	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338721	6744438		30	9/10/2012	8

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338723	6744647		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338724	6743259		80	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338724	6743354		150	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338724	6743521		30	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338724	6743635		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338724	6744555		200	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338726	6743656		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338748	6743980		15		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338748	6744190		12		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338749	6743182		7	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338749	6744126		3		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338749	6744926		17		11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338750	6743302		36	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338750	6744448		4		8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338751	6743626		15	8/10/2012	8

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338751	6743802		10	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338752	6743372		35	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338754	6744794		38		11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338756	6743769		15	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338758	6743335		15	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338758	6743569		9	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338774	6743224		8	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338777	6743837		10	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338777	6744201		2	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338778	6743871		10	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338778	6744144		3	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338779	6743382		10	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338780	6744200		1	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338780	6744649		8	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338780	6744714		6	9/10/2012	11

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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338780	6744942		15	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338781	6743457		1	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338781	6744311		5	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338781	6744395		10	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338782	6744567		4	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338783	6744795		8	9/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338785	6743533		10	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338786	6743297		10	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338786	6744426		6	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338805	6744382		30	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338805	6744583		30	10/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338805	6744758		40	10/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338805	6744857		20	10/10/2012	11
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338806	6743301		20	8/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338809	6743350		30	9/10/2012	8



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<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338809	6743436		30	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338809	6743539		25	23/11/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338809	6743621		22	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338810	6743683		1	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338810	6744200		50	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338811	6743329		6	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338811	6743467		22	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338811	6743488		35	9/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338857	6743365		3	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338859	6743681		2	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338861	6740930		5		10
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338866	6743620		30	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	338869	6743506		20	10/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	339565	6744268		5	4/10/2012	8
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	339576	6744327		20	4/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>	3	341088	6745813	SITE05	50	4/10/2012	11
<i>Micromyrtus rogeri</i>	1	333249	6742064	WE036		24/10/2011	9
<i>Micromyrtus rogeri</i>	1	333415	6745907		20	11/10/2012	3
<i>Micromyrtus rogeri</i>	1	333473	6745892		80	11/10/2012	3
<i>Micromyrtus rogeri</i>	1	333475	6746310		100	11/10/2012	12
<i>Micromyrtus rogeri</i>	1	333778	6742910		100	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	333802	6742848		50	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	334052	6747404	WE033		26/10/2011	7a
<i>Micromyrtus rogeri</i>	1	334635	6748026	WE076		24/11/2011	9
<i>Micromyrtus rogeri</i>	1	334878	6747924		100	23/11/2011	9
<i>Micromyrtus rogeri</i>	1	335103	6747272	WE068		23/11/2011	8
<i>Micromyrtus rogeri</i>	1	335135	6747326		15	22/10/2012	8
<i>Micromyrtus rogeri</i>	1	335156	6747346		40	22/10/2012	8
<i>Micromyrtus rogeri</i>	1	335191	6747326		10	22/10/2012	8
<i>Micromyrtus rogeri</i>	1	335393	6743205				10
<i>Micromyrtus rogeri</i>	1	335485	6747339		100	22/10/2012	8
<i>Micromyrtus rogeri</i>	1	335517	6747229		50	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	335528	6747364		4		8
<i>Micromyrtus rogeri</i>	1	335532	6747305		7		8
<i>Micromyrtus rogeri</i>	1	335559	6747362		2	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	335560	6747352		8	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	335585	6747297		2	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	335599	6747236		8	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	335701	6747173		30	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	335702	6747203		12		8
<i>Micromyrtus rogeri</i>	1	335710	6747184		10	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	335719	6747218		30	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	335731	6747130		8	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	335734	6747230		7		8
<i>Micromyrtus rogeri</i>	1	335736	6747143		1		8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	335778	6747226		10	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	335790	6747139		5	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	335813	6747224		10	11/10/2012	8
<i>Micromyrtus rogeri</i>	1	336067	6747151		20	22/10/2012	8
<i>Micromyrtus rogeri</i>	1	336075	6747120		20	22/10/2012	8
<i>Micromyrtus rogeri</i>	1	336126	6747113		20	22/10/2012	8
<i>Micromyrtus rogeri</i>	1	336134	6747139		30	5/11/2012	8
<i>Micromyrtus rogeri</i>	1	336175	6746215		30	7/11/2012	11
<i>Micromyrtus rogeri</i>	1	336182	6747158		16	6/11/2012	8
<i>Micromyrtus rogeri</i>	1	336189	6746255		15	7/11/2012	7b
<i>Micromyrtus rogeri</i>	1	336287	6746230		100	7/11/2012	7b
<i>Micromyrtus rogeri</i>	1	336329	6746119		50	7/11/2012	11
<i>Micromyrtus rogeri</i>	1	336350	6744284		50	26/10/2011	7b
<i>Micromyrtus rogeri</i>	1	336351	6746146		5	7/11/2012	7b
<i>Micromyrtus rogeri</i>	1	336383	6746698		40	13/11/2012	11
<i>Micromyrtus rogeri</i>	1	336442	6746830		100	13/11/2012	8
<i>Micromyrtus rogeri</i>	1	336470	6746815		20	13/11/2012	8
<i>Micromyrtus rogeri</i>	1	336490	6746821		2	13/11/2012	7b
<i>Micromyrtus rogeri</i>	1	336502	6746718		50	5/11/2012	8
<i>Micromyrtus rogeri</i>	1	336560	6746658		10	13/11/2012	7b
<i>Micromyrtus rogeri</i>	1	336587	6746618		10	13/11/2012	7b
<i>Micromyrtus rogeri</i>	1	336657	6746629		50	13/11/2012	7b
<i>Micromyrtus rogeri</i>	1	336883	6747065		100	13/11/2012	8
<i>Micromyrtus rogeri</i>	1	336907	6746988		30	23/10/2012	8
<i>Micromyrtus rogeri</i>	1	336928	6747008		5	13/11/2012	8
<i>Micromyrtus rogeri</i>	1	336950	6746777		30	23/10/2012	8
<i>Micromyrtus rogeri</i>	1	336970	6746886		20	23/10/2012	8
<i>Micromyrtus rogeri</i>	1	337010	6746937		5	13/11/2012	8
<i>Micromyrtus rogeri</i>	1	337030	6746755		10	13/11/2012	8
<i>Micromyrtus rogeri</i>	1	337161	6747038		200	23/10/2012	9
<i>Micromyrtus rogeri</i>	1	337166	6746734		200	13/11/2012	9

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	337169	6746999		100	13/11/2012	7b
<i>Micromyrtus rogeri</i>	1	337221	6744545		70	9/10/2012	13b
<i>Micromyrtus rogeri</i>	1	337250	6746942		10	13/11/2012	7b
<i>Micromyrtus rogeri</i>	1	337306	6746453		50	22/11/2011	7b
<i>Micromyrtus rogeri</i>	1	337389	6746455	WE061		21/11/2011	8
<i>Micromyrtus rogeri</i>	1	337440	6746896		50	13/11/2012	7b
<i>Micromyrtus rogeri</i>	1	337458	6746918		50	23/10/2012	7b
<i>Micromyrtus rogeri</i>	1	337602	6744788		20	10/10/2012	11
<i>Micromyrtus rogeri</i>	1	337623	6747840		15	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337625	6744767		1	10/10/2012	11
<i>Micromyrtus rogeri</i>	1	337629	6742021		50	23/10/2012	8
<i>Micromyrtus rogeri</i>	1	337630	6744805		2	10/10/2012	11
<i>Micromyrtus rogeri</i>	1	337650	6744763		11		11
<i>Micromyrtus rogeri</i>	1	337660	6742287		100	23/10/2012	8
<i>Micromyrtus rogeri</i>	1	337662	6744795		3		11
<i>Micromyrtus rogeri</i>	1	337672	6747863		4	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337683	6742353		30	23/10/2012	7b
<i>Micromyrtus rogeri</i>	1	337685	6744716		60	10/10/2012	11
<i>Micromyrtus rogeri</i>	1	337688	6747838		25	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337690	6744800		10	10/10/2012	11
<i>Micromyrtus rogeri</i>	1	337696	6744000		5	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	337716	6746205		40	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337719	6746148		10	12/12/2012	8
<i>Micromyrtus rogeri</i>	1	337720	6744022		5	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	337720	6744600		1	10/10/2012	7a
<i>Micromyrtus rogeri</i>	1	337720	6744700		45	10/10/2012	11
<i>Micromyrtus rogeri</i>	1	337720	6744796		10	10/10/2012	11
<i>Micromyrtus rogeri</i>	1	337722	6747690		2		8
<i>Micromyrtus rogeri</i>	1	337726	6746159		10	12/12/2012	8
<i>Micromyrtus rogeri</i>	1	337740	6746091		20	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337742	6746211		10	12/12/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	337747	6746233		10	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337749	6744514		20	9/10/2012	7a
<i>Micromyrtus rogeri</i>	1	337749	6744694		100	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	337749	6747866		18	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337753	6744627		100	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	337754	6744026		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	337754	6744762		5	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	337756	6746094		10	12/12/2012	8
<i>Micromyrtus rogeri</i>	1	337768	6746140		20	12/12/2012	8
<i>Micromyrtus rogeri</i>	1	337770	6746238		10	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337778	6747793		50		8
<i>Micromyrtus rogeri</i>	1	337779	6746109		30	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337780	6747817		50	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337796	6747590		2		13b
<i>Micromyrtus rogeri</i>	1	337808	6743990		5	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	337817	6747857		15	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337822	6746218		1	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337827	6744056		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	337861	6746125	WE081		24/11/2011	8
<i>Micromyrtus rogeri</i>	1	337877	6745164				7b
<i>Micromyrtus rogeri</i>	1	337878	6747823		50	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337886	6747812		25		8
<i>Micromyrtus rogeri</i>	1	337891	6747857		10	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337898	6746248		20	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337905	6747865		5	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337926	6744659		1		11
<i>Micromyrtus rogeri</i>	1	337926	6747841		2	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	337972	6746248		60	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	338003	6747230		6	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	338006	6743898		3	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338010	6747185		20	13/11/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338011	6747265		1	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	338015	6745305				7b
<i>Micromyrtus rogeri</i>	1	338021	6747229		10		8
<i>Micromyrtus rogeri</i>	1	338024	6746456		200	22/11/2011	7b
<i>Micromyrtus rogeri</i>	1	338033	6746249		30	12/10/2012	7b
<i>Micromyrtus rogeri</i>	1	338035	6746231		65	12/12/2012	7b
<i>Micromyrtus rogeri</i>	1	338038	6746220		50	12/10/2012	7b
<i>Micromyrtus rogeri</i>	1	338060	6743100		9	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338060	6743163		6	9/10/2012	7b
<i>Micromyrtus rogeri</i>	1	338080	6747334		10	12/10/2012	7b
<i>Micromyrtus rogeri</i>	1	338084	6747230		15	12/10/2012	8
<i>Micromyrtus rogeri</i>	1	338088	6742232		5	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338098	6742213		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338103	6743403		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338107	6742291	WE059		21/11/2011	8
<i>Micromyrtus rogeri</i>	1	338112	6743351		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338112	6743646		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338113	6742781		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338114	6742376		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338118	6743018		24		8
<i>Micromyrtus rogeri</i>	1	338118	6744134		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338119	6744033		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338119	6747284		50	22/11/2011	8
<i>Micromyrtus rogeri</i>	1	338121	6743460		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338123	6743930		2	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338124	6743704		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338124	6743809		50	9/10/2012	1b
<i>Micromyrtus rogeri</i>	1	338128	6742509		100	13/11/2012	8
<i>Micromyrtus rogeri</i>	1	338131	6743554		200	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338132	6743584		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338134	6742710		100	13/11/2012	8



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338136	6742692		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338139	6742375		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338140	6742556		50	13/11/2012	8
<i>Micromyrtus rogeri</i>	1	338143	6747302		20	12/10/2012	7b
<i>Micromyrtus rogeri</i>	1	338148	6743044		4	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338150	6743393		3	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338150	6743439		2	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338150	6743456		15	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338150	6743550		10	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338150	6743574		26	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338150	6743703		11	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338150	6743919		5	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338163	6742253		100	22/11/2011	8
<i>Micromyrtus rogeri</i>	1	338172	6742594		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338179	6743644		85	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338181	6742988		35	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338181	6743502		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338181	6744076		40	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338184	6743379		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338185	6743899		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338199	6747000		50	13/11/2012	11
<i>Micromyrtus rogeri</i>	1	338208	6743403		16		8
<i>Micromyrtus rogeri</i>	1	338208	6743505		5		8
<i>Micromyrtus rogeri</i>	1	338209	6743616		38		8
<i>Micromyrtus rogeri</i>	1	338210	6743867		10		8
<i>Micromyrtus rogeri</i>	1	338210	6744070		38		8
<i>Micromyrtus rogeri</i>	1	338211	6742651		100	13/11/2012	8
<i>Micromyrtus rogeri</i>	1	338214	6743004		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338215	6742891		80	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338216	6742844		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338217	6740905		5	12/10/2012	7a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338218	6742793		5	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338229	6743893		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338234	6743734		7	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338238	6744058		15	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338240	6742793		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338240	6742943		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338240	6743013		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338240	6743567		16	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338240	6743838		15	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338245	6743615		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338262	6742862		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338265	6743029		25	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338270	6742482		20	13/11/2012	8
<i>Micromyrtus rogeri</i>	1	338270	6743462		22	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338270	6743596		22	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338270	6743748		35	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338270	6744000		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338270	6744135		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338273	6742816		45	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338280	6746958		150	13/11/2012	7b
<i>Micromyrtus rogeri</i>	1	338290	6743587		75	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338300	6743990		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338301	6743822		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338304	6743102		33		8
<i>Micromyrtus rogeri</i>	1	338306	6742918		20		8
<i>Micromyrtus rogeri</i>	1	338309	6742819		4		8
<i>Micromyrtus rogeri</i>	1	338309	6743953		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338309	6744049		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338309	6747000		150	13/11/2012	7b
<i>Micromyrtus rogeri</i>	1	338327	6743160		15	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338330	6742800		25	9/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338330	6743020		25	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338330	6743092		15	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338330	6744041		20	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338330	6744175		5	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338332	6742892		8	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338332	6743658		8	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338332	6743703		25	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338332	6743880		1	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338332	6743988		43	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338333	6742549		100	13/11/2012	8
<i>Micromyrtus rogeri</i>	1	338340	6746965		25	13/11/2012	7b
<i>Micromyrtus rogeri</i>	1	338357	6743089		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338360	6742791		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338360	6744000		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338361	6742866		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338361	6743001		15	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338362	6742941		7	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338362	6744113		60	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338362	6744177		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338364	6743893		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338367	6743656		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338385	6744336		8		8
<i>Micromyrtus rogeri</i>	1	338386	6743106		250	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338387	6742989		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338388	6742835		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338389	6743895		8		8
<i>Micromyrtus rogeri</i>	1	338389	6743995		15		8
<i>Micromyrtus rogeri</i>	1	338390	6742790		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338390	6744204		7		8
<i>Micromyrtus rogeri</i>	1	338396	6743210		20	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	338396	6743345		29		11

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338415	6744084		25	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338416	6742899		5	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338416	6743000		15	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338416	6743100		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338416	6743200		20	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	338416	6743275		5	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	338420	6744000		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338420	6744050		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338420	6744403		3	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338422	6743725		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338422	6744211		2	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338423	6743766		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338423	6743827		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338426	6744162		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338426	6744290		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338429	6742505		50	13/11/2012	7a
<i>Micromyrtus rogeri</i>	1	338448	6744118		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338449	6742876		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338450	6743641		5	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338450	6743791		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338450	6744000		200	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338450	6744235		60	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338450	6744376		70	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338456	6743300		10	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	338460	6743118		25	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338464	6742949		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338472	6743639		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338473	6743386		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338475	6743742		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338478	6743982		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338480	6742894		20		8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338480	6743267		7		8
<i>Micromyrtus rogeri</i>	1	338483	6744004		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338483	6744083		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338483	6744213		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338486	6743123		15		8
<i>Micromyrtus rogeri</i>	1	338486	6743590		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338487	6744189		200	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338490	6744359		40	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338508	6743263		15	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338508	6743384		45	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338508	6743558		13	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338510	6742865		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338510	6743135		4	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338510	6744000		25	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338510	6744106		43	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338510	6744200		20	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338510	6744300		22	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338510	6744447		1	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338510	6744680		1	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338511	6743678		12	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338511	6743997		25	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338513	6742940		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338514	6743195		1	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338514	6743290		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338536	6744101		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338537	6743163		34	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338540	6743300		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338540	6743372		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338540	6744000		370	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338540	6744074		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338540	6744200		50	9/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338541	6743298		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338541	6744271		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338542	6742908		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338543	6743525		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338546	6743646		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338560	6743348		31		8
<i>Micromyrtus rogeri</i>	1	338565	6743150		15	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338568	6742887		20	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338568	6743966	WE043		26/10/2011	8
<i>Micromyrtus rogeri</i>	1	338569	6743990		18		8
<i>Micromyrtus rogeri</i>	1	338570	6744200		8		8
<i>Micromyrtus rogeri</i>	1	338571	6743518		15		8
<i>Micromyrtus rogeri</i>	1	338571	6743966				8
<i>Micromyrtus rogeri</i>	1	338571	6744141		30		8
<i>Micromyrtus rogeri</i>	1	338572	6743031		20	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338572	6743995		40		8
<i>Micromyrtus rogeri</i>	1	338572	6744274		7		8
<i>Micromyrtus rogeri</i>	1	338575	6744330	WE042		26/10/2011	8
<i>Micromyrtus rogeri</i>	1	338588	6743115		100	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338590	6744097		3	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338594	6744049		15	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338595	6744200		8	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338598	6743529		3	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338599	6743040		6	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338600	6742990		25	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338600	6744000		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338600	6744200		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338601	6743330		40	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338602	6743480		10	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	338602	6743957		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338603	6743549		7	9/10/2012	8



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338603	6744927				8
<i>Micromyrtus rogeri</i>	1	338606	6743097		25	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338615	6744983				8
<i>Micromyrtus rogeri</i>	1	338617	6744398				8
<i>Micromyrtus rogeri</i>	1	338619	6743860				8
<i>Micromyrtus rogeri</i>	1	338620	6743103		4	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338624	6742846		200	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338625	6743069		10	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338625	6743928				8
<i>Micromyrtus rogeri</i>	1	338625	6744474	EM-51			8
<i>Micromyrtus rogeri</i>	1	338627	6743181		10	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338629	6743359		25	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338629	6743400				8
<i>Micromyrtus rogeri</i>	1	338630	6742915		20	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338630	6743852		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338630	6744000		145	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338630	6744136		40	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338631	6743086		1	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338631	6743651		15	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338631	6744215				8
<i>Micromyrtus rogeri</i>	1	338632	6743506		60	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	338634	6743450				8
<i>Micromyrtus rogeri</i>	1	338637	6743860				8
<i>Micromyrtus rogeri</i>	1	338637	6744020				8
<i>Micromyrtus rogeri</i>	1	338642	6743659	EM-50			8
<i>Micromyrtus rogeri</i>	1	338645	6742584				8
<i>Micromyrtus rogeri</i>	1	338646	6743942		200	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338647	6743115				8
<i>Micromyrtus rogeri</i>	1	338648	6743658		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338651	6743765		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338652	6743873		50	9/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338655	6743185		20	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338658	6743737		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338659	6743366		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338660	6743091		50	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338661	6743157		40	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338661	6743219				8
<i>Micromyrtus rogeri</i>	1	338661	6744162		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338662	6743632		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338662	6744003		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338663	6743472		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338663	6744087		200	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338664	6743407		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338664	6744073		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338667	6743522		100	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	338675	6742642				8
<i>Micromyrtus rogeri</i>	1	338684	6743012	EM-49			8
<i>Micromyrtus rogeri</i>	1	338688	6742928		20	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338690	6743364		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338690	6743492		15	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	338690	6743600		5	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338690	6743856		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338690	6744145		15	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338691	6742995		100	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338691	6743064		250	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338693	6743200		200	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338694	6743762				8
<i>Micromyrtus rogeri</i>	1	338698	6742862		20	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338705	6742855	EM-48			8
<i>Micromyrtus rogeri</i>	1	338707	6743087		50	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338707	6743141		100	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338710	6742984				8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338710	6744000		60	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338711	6743912		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338713	6743844		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338714	6744150		40	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338716	6744100		100	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338717	6742906		60	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338717	6743483		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338718	6743595		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338719	6743394		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338719	6743790		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338720	6742865		50	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338720	6743181		50	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338720	6743557		40	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	338720	6744272		1	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338721	6743121		80	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338723	6743729		20	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338724	6742989		150	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338724	6743066		60	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338724	6743354		200	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338724	6743521		50	9/10/2012	11
<i>Micromyrtus rogeri</i>	1	338724	6743635		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338726	6743656		10	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338730	6742875				8
<i>Micromyrtus rogeri</i>	1	338745	6744060		14		8
<i>Micromyrtus rogeri</i>	1	338746	6744176		3		8
<i>Micromyrtus rogeri</i>	1	338748	6743859		1	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338749	6742925		50	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338749	6743732		30	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338749	6744126		22		8
<i>Micromyrtus rogeri</i>	1	338750	6744153		16		8
<i>Micromyrtus rogeri</i>	1	338751	6742881		15	8/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338751	6743626		28	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338751	6743802		45	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338752	6743057		30	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338752	6743139		22	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338752	6743372		15	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338756	6743769		20	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338757	6742984		20	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338758	6743335		10	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338758	6743569		22	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338771	6743106		20	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338773	6743587		30	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338774	6744070		8	9/10/2012	1b
<i>Micromyrtus rogeri</i>	1	338777	6743837		20	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338778	6743359		30	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338778	6743417		6	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338778	6743871		50	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338778	6744144		6	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338780	6742973		30	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338780	6744168		15	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338781	6743457		8	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338782	6743681		7	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338782	6743787		30	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338782	6743967		20	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338785	6743533		8	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338786	6743297		7	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338808	6742933		6	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338808	6742990		30	8/10/2012	8
<i>Micromyrtus rogeri</i>	1	338809	6743350		50	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338809	6743436		22	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338809	6743539		35	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338809	6743621		25	9/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338809	6743806		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338810	6743317		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338810	6743683		40	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338810	6743751		15	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338810	6743853		45	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338811	6743488		30	9/10/2012	8
<i>Micromyrtus rogeri</i>	1	338847	6742666		2		8
<i>Micromyrtus rogeri</i>	1	338854	6742730		36		1b
<i>Micromyrtus rogeri</i>	1	338855	6742663		5	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338856	6742679		7		8
<i>Micromyrtus rogeri</i>	1	338856	6743775		3	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338857	6743365		5	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338857	6743590		5	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338857	6743858		5	10/10/2012	C
<i>Micromyrtus rogeri</i>	1	338858	6742708		5		8
<i>Micromyrtus rogeri</i>	1	338859	6743256		5	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338859	6743308		10	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338859	6743681		5	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338860	6742962		3	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338860	6743107		2	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338860	6743509		1	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338863	6743005		9	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338866	6743620		10	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338869	6743250		50	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338871	6742972		30	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338871	6743713		3	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338871	6743770		30	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338871	6743853		15	10/10/2012	C
<i>Micromyrtus rogeri</i>	1	338875	6743105		20	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338878	6743142		10	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338879	6742644		20	10/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Micromyrtus rogeri</i>	1	338880	6742642		5	10/10/2012	8
<i>Micromyrtus rogeri</i>	1	338997	6743188				C
<i>Micromyrtus rogeri</i>	1	339499	6742778		20	4/10/2012	1a
<i>Micromyrtus rogeri</i>	1	339600	6743071		50	4/10/2012	8
<i>Micromyrtus rogeri</i>	1	339640	6743108		100	5/10/2012	8
<i>Micromyrtus rogeri</i>	1	339650	6743152		150	5/10/2012	8
<i>Micromyrtus rogeri</i>	1	339651	6743073		50	4/10/2012	8
<i>Micromyrtus rogeri</i>	1	339670	6743175		100	5/10/2012	1a
<i>Micromyrtus rogeri</i>	1	339688	6743149		50	5/10/2012	8
<i>Micromyrtus rogeri</i>	1	339713	6743152		30	5/10/2012	8
<i>Paracaleana dixonii</i>	T	335016	6747270		5	23/11/11	8
<i>Paracaleana dixonii</i>	T	332426	6742011		2	25/11/11	10
<i>Paracaleana dixonii</i>	T	332458	6742000		1	25/11/11	10
<i>Paracaleana dixonii</i>	T	332627	6742133		1	16/11/12	10
<i>Paracaleana dixonii</i>	T	334048	6748416		1	6/11/12	10
<i>Paracaleana dixonii</i>	T	334282	6748070		1	5/11/12	10
<i>Paracaleana dixonii</i>	T	334307	6747367		1	5/11/12	10
<i>Paracaleana dixonii</i>	T	334509	6747354		1	5/11/12	10
<i>Paracaleana dixonii</i>	T	334692	6745127		1	9/11/12	10
<i>Paracaleana dixonii</i>	T	334728	6744690		1	8/11/12	10
<i>Paracaleana dixonii</i>	T	334943	6747279		2	23/11/11	10
<i>Paracaleana dixonii</i>	T	334980	6748332		1	24/11/11	10
<i>Paracaleana dixonii</i>	T	335113	6748202		2	23/11/11	10
<i>Paracaleana dixonii</i>	T	335137	6742270		1	26/11/11	10
<i>Paracaleana dixonii</i>	T	335160	6742249		1	26/11/11	10
<i>Paracaleana dixonii</i>	T	335178	6742632		1	14/11/12	10
<i>Paracaleana dixonii</i>	T	335639	6742596		1	14/11/12	10
<i>Paracaleana dixonii</i>	T	335697	6742805		1	14/11/12	10
<i>Paracaleana dixonii</i>	T	335701	6742599		1	14/11/12	10
<i>Paracaleana dixonii</i>	T	335729	6742599		1	14/11/12	10
<i>Paracaleana dixonii</i>	T	336425	6748325		1	12/11/12	10

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Paracaleana dixonii</i>	T	336428	6748271		2	12/11/12	10
<i>Paracaleana dixonii</i>	T	336430	6748311		1	12/11/12	10
<i>Paracaleana dixonii</i>	T	336430	6748360		1	12/11/12	10
<i>Paracaleana dixonii</i>	T	336444	6748351		1	12/11/12	10
<i>Paracaleana dixonii</i>	T	336455	6748299		1	12/11/12	10
<i>Paracaleana dixonii</i>	T	336488	6747968		1	12/11/12	10
<i>Paracaleana dixonii</i>	T	336567	6748421		1	6/11/12	10
<i>Paracaleana dixonii</i>	T	336570	6748608	WEC079	2	5/11/12	10
<i>Paracaleana dixonii</i>	T	336581	6748596		2	5/11/12	10
<i>Paracaleana dixonii</i>	T	336588	6748450		1	6/11/12	10
<i>Paracaleana dixonii</i>	T	336592	6748457		1	6/11/12	10
<i>Paracaleana dixonii</i>	T	336594	6747919		2	5/11/12	10
<i>Paracaleana dixonii</i>	T	336596	6748629		1	5/11/12	10
<i>Paracaleana dixonii</i>	T	336607	6748447		1	5/11/12	10
<i>Paracaleana dixonii</i>	T	336617	6748552		1	5/11/12	10
<i>Paracaleana dixonii</i>	T	336621	6748558		2	5/11/12	10
<i>Paracaleana dixonii</i>	T	336690	6748469		2	5/11/12	10
<i>Paracaleana dixonii</i>	T	337391	6741967		3	8/11/12	10
<i>Paracaleana dixonii</i>	T	337644	6741895		2	8/11/12	10
<i>Paracaleana dixonii</i>	T	335486	6748067		1	5/11/12	11
<i>Paracaleana dixonii</i>	T	335489	6748093		1	5/11/12	11
<i>Paracaleana dixonii</i>	T	336268	6746799		3	5/11/12	11
<i>Paracaleana dixonii</i>	T	336336	6748551		1	5/11/12	11
<i>Paracaleana dixonii</i>	T	336511	6748583		2	6/11/12	11
<i>Paracaleana dixonii</i>	T	338210	6747252		1	22/11/11	11
<i>Paracaleana dixonii</i>	T	338237	6747264		2	22/11/11	11
<i>Paracaleana dixonii</i>	T	333217	6745215		1	7/11/12	12
<i>Paracaleana dixonii</i>	T	333227	6745228		1	7/11/12	12
<i>Paracaleana dixonii</i>	T	333286	6745226		2	7/11/12	12
<i>Paracaleana dixonii</i>	T	333291	6745235		1	7/11/12	12
<i>Paracaleana dixonii</i>	T	333310	6745202		1	7/11/12	12



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Paracaleana dixonii</i>	T	333311	6745949		1	5/11/12	12
<i>Paracaleana dixonii</i>	T	333325	6745218		1	7/11/12	12
<i>Paracaleana dixonii</i>	T	333341	6745877		1	5/11/12	12
<i>Paracaleana dixonii</i>	T	333360	6746194		2	5/11/12	12
<i>Paracaleana dixonii</i>	T	333376	6745840		1	6/11/12	12
<i>Paracaleana dixonii</i>	T	333381	6745836		1	6/11/12	12
<i>Paracaleana dixonii</i>	T	333385	6746298		1	5/11/12	12
<i>Paracaleana dixonii</i>	T	333390	6746338		1	5/11/12	12
<i>Paracaleana dixonii</i>	T	333450	6745789		3	6/11/12	12
<i>Paracaleana dixonii</i>	T	333455	6745794		1	6/11/12	12
<i>Paracaleana dixonii</i>	T	332786	6740806		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	332908	6744374		1	7/11/12	13a
<i>Paracaleana dixonii</i>	T	332909	6744366		1	7/11/12	13a
<i>Paracaleana dixonii</i>	T	332910	6740772		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	333123	6740808		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	333300	6740818		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	333591	6740851		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	333593	6740844		3	8/11/12	13a
<i>Paracaleana dixonii</i>	T	333683	6745050		2	7/11/12	13a
<i>Paracaleana dixonii</i>	T	333691	6745046		1	7/11/12	13a
<i>Paracaleana dixonii</i>	T	333697	6745038		5	7/11/12	13a
<i>Paracaleana dixonii</i>	T	333897	6740773		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334200	6744610		1	7/11/12	13a
<i>Paracaleana dixonii</i>	T	334208	6744606		1	7/11/12	13a
<i>Paracaleana dixonii</i>	T	334216	6744632		2	7/11/12	13a
<i>Paracaleana dixonii</i>	T	334336	6745287		1	9/11/12	13a
<i>Paracaleana dixonii</i>	T	334368	6744363		2	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334373	6744661		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334376	6744662		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334388	6745171		1	9/11/12	13a
<i>Paracaleana dixonii</i>	T	334389	6745172		1	9/11/12	13a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Paracaleana dixonii</i>	T	334418	6745134		4	9/11/12	13a
<i>Paracaleana dixonii</i>	T	334433	6745364		1	9/11/12	13a
<i>Paracaleana dixonii</i>	T	334478	6744369		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334478	6744372		5	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334479	6744374		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334490	6744749		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334494	6744749		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334542	6745066		1	9/11/12	13a
<i>Paracaleana dixonii</i>	T	334546	6744795		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334562	6744404		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334569	6745057		4	9/11/12	13a
<i>Paracaleana dixonii</i>	T	334594	6745055		2	9/11/12	13a
<i>Paracaleana dixonii</i>	T	334599	6745057		1	9/11/12	13a
<i>Paracaleana dixonii</i>	T	334622	6744436		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334624	6744436		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334625	6745051		1	9/11/12	13a
<i>Paracaleana dixonii</i>	T	334634	6745010		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334637	6745007		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334671	6745199		1	9/11/12	13a
<i>Paracaleana dixonii</i>	T	334698	6744486		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334699	6744472		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334702	6744490		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334710	6744488		2	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334715	6744878		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334717	6744880		3	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334718	6744887		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334719	6744882		2	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334723	6744939		2	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334725	6744884		2	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334725	6744889		2	8/11/12	13a
<i>Paracaleana dixonii</i>	T	334743	6743864		1	26/11/11	13a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Paracaleana dixonii</i>	T	334798	6743860		1	26/11/11	13a
<i>Paracaleana dixonii</i>	T	334863	6742133		1	15/11/12	13a
<i>Paracaleana dixonii</i>	T	335034	6741866		1	15/11/12	13a
<i>Paracaleana dixonii</i>	T	335057	6741859		2	15/11/12	13a
<i>Paracaleana dixonii</i>	T	335061	6741858		7	15/11/12	13a
<i>Paracaleana dixonii</i>	T	335195	6741855		1	15/11/12	13a
<i>Paracaleana dixonii</i>	T	335240	6741862		2	15/11/12	13a
<i>Paracaleana dixonii</i>	T	335262	6741857		2	15/11/12	13a
<i>Paracaleana dixonii</i>	T	335437	6742798		1	14/11/12	13a
<i>Paracaleana dixonii</i>	T	335694	6741860		1	15/11/12	13a
<i>Paracaleana dixonii</i>	T	336353	6741147		2	15/11/12	13a
<i>Paracaleana dixonii</i>	T	336872	6740969		1	15/11/12	13a
<i>Paracaleana dixonii</i>	T	336967	6742374		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	337017	6742313		2	8/11/12	13a
<i>Paracaleana dixonii</i>	T	337030	6740999		1	15/11/12	13a
<i>Paracaleana dixonii</i>	T	338549	6742128		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	338571	6742133		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	338575	6742129		1	8/11/12	13a
<i>Paracaleana dixonii</i>	T	333551	6741816		1	9/11/12	7a
<i>Paracaleana dixonii</i>	T	333560	6741825		2	9/11/12	7a
<i>Paracaleana dixonii</i>	T	333577	6741943		2	9/11/12	7a
<i>Paracaleana dixonii</i>	T	334920	6742328		4	26/11/11	7a
<i>Paracaleana dixonii</i>	T	337303	6740081		1	14/11/12	7a
<i>Paracaleana dixonii</i>	T	337304	6739768		2	14/11/12	7a
<i>Paracaleana dixonii</i>	T	337572	6740055		1	14/11/12	7a
<i>Paracaleana dixonii</i>	T	337609	6739673		1	14/11/12	7a
<i>Paracaleana dixonii</i>	T	337740	6739893	WEC055		21/11/11	7a
<i>Paracaleana dixonii</i>	T	337741	6739831		2	21/11/11	7a
<i>Paracaleana dixonii</i>	T	337995	6741892		1	8/11/12	7a
<i>Paracaleana dixonii</i>	T	338268	6739970		1	13/11/12	7a
<i>Paracaleana dixonii</i>	T	338284	6740305		1	13/11/12	7a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Paracaleana dixonii</i>	T	333342	6745883		1	5/11/12	7b
<i>Paracaleana dixonii</i>	T	333363	6745852		2	5/11/12	7b
<i>Paracaleana dixonii</i>	T	333364	6745852		2	7/11/12	7b
<i>Paracaleana dixonii</i>	T	333377	6745877		1	6/11/12	7b
<i>Paracaleana dixonii</i>	T	334130	6741864		1	9/11/12	7b
<i>Paracaleana dixonii</i>	T	334243	6741871		1	9/11/12	7b
<i>Paracaleana dixonii</i>	T	334247	6741872		1	9/11/12	7b
<i>Paracaleana dixonii</i>	T	334292	6741712		1	24/11/11	7b
<i>Paracaleana dixonii</i>	T	334304	6741712		1	24/11/11	7b
<i>Paracaleana dixonii</i>	T	334309	6741734		3	24/11/11	7b
<i>Paracaleana dixonii</i>	T	334311	6741719		1	24/11/11	7b
<i>Paracaleana dixonii</i>	T	334317	6741732		2	24/11/11	7b
<i>Paracaleana dixonii</i>	T	334322	6741720		1	24/11/11	7b
<i>Paracaleana dixonii</i>	T	334329	6741729		1	24/11/11	7b
<i>Paracaleana dixonii</i>	T	335544	6745287		1	7/11/12	7b
<i>Paracaleana dixonii</i>	T	335551	6745287		1	7/11/12	7b
<i>Paracaleana dixonii</i>	T	335559	6745218		1	7/11/12	7b
<i>Paracaleana dixonii</i>	T	336001	6744187		1	15/11/12	7b
<i>Paracaleana dixonii</i>	T	336115	6742769		1	14/11/12	7b
<i>Paracaleana dixonii</i>	T	336139	6742798		1	14/11/12	7b
<i>Paracaleana dixonii</i>	T	336189	6747338		1	5/11/12	7b
<i>Paracaleana dixonii</i>	T	336607	6748263		5	5/11/12	7b
<i>Paracaleana dixonii</i>	T	336609	6748264		12	5/11/12	7b
<i>Paracaleana dixonii</i>	T	336612	6748005		1	5/11/12	7b
<i>Paracaleana dixonii</i>	T	336615	6748037		1	5/11/12	7b
<i>Paracaleana dixonii</i>	T	336678	6746735		1	5/11/12	7b
<i>Paracaleana dixonii</i>	T	336794	6746852		1	5/11/12	7b
<i>Paracaleana dixonii</i>	T	337159	6742571		1	8/11/12	7b
<i>Paracaleana dixonii</i>	T	337200	6742591		1	8/11/12	7b
<i>Persoonia filiformis</i>	2	337602	6738956		1	14/11/12	13a
<i>Persoonia filiformis</i>	2	337307	6738960		2	14/11/12	10

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Persoonia filiformis</i>	2	336938	6739443	WEC003		27/09/11	10
<i>Persoonia filiformis</i>	2	337740	6739893	WEC055		21/11/11	7a
<i>Persoonia filiformis</i>	2	337315	6740160		1	14/11/12	7a
<i>Persoonia filiformis</i>	2	338504	6740656		1	12/10/12	7a
<i>Persoonia filiformis</i>	2	335868	6740760	WEC090		26/11/11	7b
<i>Persoonia filiformis</i>	2	338331	6740845		1	12/10/12	7a
<i>Persoonia filiformis</i>	2	334149	6742226		2	16/11/12	10
<i>Persoonia filiformis</i>	2	335172	6742250	WEC019		30/09/11	10
<i>Persoonia filiformis</i>	2	338294	6741000		1	15/11/12	7a
<i>Persoonia filiformis</i>	2	338104	6740999		4	15/11/12	7a
<i>Persoonia filiformis</i>	2	338000	6741001		3	15/11/12	7a
<i>Persoonia filiformis</i>	2	337744	6741003		1	15/11/12	10
<i>Persoonia filiformis</i>	2	337287	6741006		4	15/11/12	10
<i>Persoonia filiformis</i>	2	336924	6741002		1	15/11/12	13a
<i>Persoonia filiformis</i>	2	336493	6740997		1	15/11/12	7a
<i>Persoonia filiformis</i>	2	336392	6740999		1	15/11/12	7a
<i>Persoonia filiformis</i>	2	336790	6741006		2	15/11/12	7a
<i>Persoonia filiformis</i>	2	337364	6741169		1	15/11/12	10
<i>Persoonia filiformis</i>	2	337251	6741170		1	15/11/12	10
<i>Persoonia filiformis</i>	2	336861	6741173		1	15/11/12	13a
<i>Persoonia filiformis</i>	2	336942	6741175		1	15/11/12	10
<i>Persoonia filiformis</i>	2	336866	6741199		1	15/11/12	13a
<i>Persoonia filiformis</i>	2	337210	6741207		2	15/11/12	10
<i>Persoonia filiformis</i>	2	336715	6741205		2	15/11/12	7a
<i>Persoonia filiformis</i>	2	331909	6741361	WEC023		25/10/11	10
<i>Persoonia filiformis</i>	2	334284	6741724	WEC013		29/09/11	7b
<i>Persoonia filiformis</i>	2	336050	6741856		1	15/11/12	10
<i>Persoonia filiformis</i>	2	336156	6741861		3	15/11/12	10
<i>Persoonia filiformis</i>	2	335891	6741860		1	15/11/12	10
<i>Persoonia filiformis</i>	2	336017	6741889		1	15/11/12	10
<i>Persoonia filiformis</i>	2	335922	6741889		1	15/11/12	10

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Persoonia filiformis</i>	2	334134	6741864		1	9/11/12	7b
<i>Persoonia filiformis</i>	2	335833	6741894		1	15/11/12	10
<i>Persoonia filiformis</i>	2	334247	6741872		1	9/11/12	7b
<i>Persoonia filiformis</i>	2	334163	6741873		4	9/11/12	7b
<i>Persoonia filiformis</i>	2	334736	6741887		2	15/11/12	13a
<i>Persoonia filiformis</i>	2	336505	6742085		1	15/11/12	13a
<i>Persoonia filiformis</i>	2	334313	6742082		2	9/11/12	10
<i>Persoonia filiformis</i>	2	336286	6742128		1	15/11/12	10
<i>Persoonia filiformis</i>	2	336154	6742129		1	15/11/12	10
<i>Persoonia filiformis</i>	2	335916	6742126		1	15/11/12	10
<i>Persoonia filiformis</i>	2	335134	6742128		1	15/11/12	10
<i>Persoonia filiformis</i>	2	334780	6742131		1	15/11/12	7a
<i>Persoonia filiformis</i>	2	335680	6742151		1	15/11/12	13a
<i>Persoonia filiformis</i>	2	336261	6742162		1	15/11/12	10
<i>Persoonia filiformis</i>	2	336138	6742161		1	15/11/12	10
<i>Persoonia filiformis</i>	2	335729	6742159		1	15/11/12	10
<i>Persoonia filiformis</i>	2	335994	6742165		2	15/11/12	10
<i>Persoonia filiformis</i>	2	335290	6742163		1	15/11/12	10
<i>Persoonia filiformis</i>	2	334406	6742152		1	16/11/12	10
<i>Persoonia filiformis</i>	2	334648	6742157		1	15/11/12	7a
<i>Persoonia filiformis</i>	2	334219	6742351		1	16/11/12	10
<i>Persoonia filiformis</i>	2	334355	6742383		1	16/11/12	10
<i>Persoonia filiformis</i>	2	336299	6743764		1		7b
<i>Persoonia filiformis</i>	2	336280	6743771				7b
<i>Persoonia filiformis</i>	2	335111	6742603		3	14/11/12	10
<i>Persoonia filiformis</i>	2	335653	6742799		1	14/11/12	10
<i>Persoonia filiformis</i>	2	335225	6742795		2	14/11/12	10
<i>Persoonia filiformis</i>	2	335744	6742803		1	14/11/12	10
<i>Persoonia filiformis</i>	2	335540	6742805		1	14/11/12	10
<i>Persoonia filiformis</i>	2	335157	6742802		1	14/11/12	10
<i>Persoonia filiformis</i>	2	336001	6744020		12	15/11/12	10

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Persoonia filiformis</i>	2	335392	6743889		5	15/11/12	10
<i>Persoonia filiformis</i>	2	335474	6743895		10	15/11/12	10
<i>Persoonia filiformis</i>	2	335801	6743901		6	15/11/12	10
<i>Persoonia filiformis</i>	2	335580	6743898		2	15/11/12	10
<i>Persoonia filiformis</i>	2	335911	6743903		4	15/11/12	10
<i>Persoonia filiformis</i>	2	335699	6743901		2	15/11/12	10
<i>Persoonia filiformis</i>	2	335052	6743903		5	15/11/12	10
<i>Persoonia filiformis</i>	2	335225	6743906		6	15/11/12	7b
<i>Persoonia filiformis</i>	2	335711	6743932		1	15/11/12	10
<i>Persoonia filiformis</i>	2	335422	6743931		2	15/11/12	10
<i>Persoonia filiformis</i>	2	335088	6743929		10	15/11/12	13a
<i>Persoonia filiformis</i>	2	335730	6744167		6	15/11/12	10
<i>Persoonia filiformis</i>	2	335201	6744169		4	15/11/12	10
<i>Persoonia filiformis</i>	2	336005	6744187		2	15/11/12	7b
<i>Persoonia filiformis</i>	2	335718	6744195		4	15/11/12	10
<i>Persoonia filiformis</i>	2	335590	6744197		4	15/11/12	7b
<i>Persoonia filiformis</i>	2	335481	6744199		5	15/11/12	10
<i>Persoonia filiformis</i>	2	335324	6744199		5	15/11/12	10
<i>Persoonia filiformis</i>	2	334590	6744431		1	8/11/12	13a
<i>Persoonia filiformis</i>	2	334624	6744436		1	8/11/12	13a
<i>Persoonia filiformis</i>	2	334730	6744572		1	8/11/12	10
<i>Persoonia filiformis</i>	2	334727	6744607		3	8/11/12	10
<i>Persoonia filiformis</i>	2	335278	6744815			29/09/11	10
<i>Persoonia filiformis</i>	2	334720	6744849		1	8/11/12	10
<i>Persoonia rudis</i>	3	335700	6741862		1	15/11/12	13a
<i>Persoonia rudis</i>	3	332942	6741938		1	16/11/12	7a
<i>Persoonia rudis</i>	3	338563	6742142		1	8/11/12	13a
<i>Persoonia rudis</i>	3	338505	6742152		2	8/11/12	13a
<i>Persoonia rudis</i>	3	332672	6742105		1	16/11/12	10
<i>Persoonia rudis</i>	3	335722	6742166		1	15/11/12	10
<i>Persoonia rudis</i>	3	332655	6742499		1	16/11/12	13a



Taxon	Conservation Code	Easting	Northing	Location	Plant Count	Observation Date	Vegetation Type (VT)
<i>Persoonia rudis</i>	3	334725	6744610		1	8/11/12	10
<i>Persoonia rudis</i>	3	333077	6744613		1	7/11/12	10
<i>Persoonia rudis</i>	3	333257	6745220		1	7/11/12	12
<i>Persoonia rudis</i>	3	338561	6746401		1	23/10/12	13a
<i>Persoonia rudis</i>	3	338294	6746562		1	22/11/11	13a
<i>Persoonia rudis</i>	3	336978	6746572		1	23/10/12	11
<i>Persoonia rudis</i>	3	336800	6746876		1	5/11/12	7b
<i>Persoonia rudis</i>	3	334793	6747581		1	5/11/12	8
<i>Persoonia rudis</i>	3	336388	6747609		1	5/11/12	11
<i>Persoonia rudis</i>	3	336058	6748541		1	5/11/12	10
<i>Schoenus badius</i>	2	334133	6740257	WEC008		28/09/11	14
<i>Schoenus badius</i>	2	334382	6740263	WEC007		27/09/11	14
<i>Schoenus badius</i>	2	331705	6741485	WEC024		25/10/11	14
<i>Schoenus badius</i>	2	332100	6742266	WEC025		25/10/11	10
<i>Schoenus badius</i>	2	332369	6742776	WEC026		25/10/11	7a
<i>Schoenus badius</i>	2	335800	6744971	WEC037		25/10/11	14
<i>Schoenus badius</i>	2	333677	6746827	WEC034		26/10/11	13b
? <i>Stylidium carnosum</i> subsp. Narrow leaves (J.A. Wege 490)		336612	6747977		1	6/11/12	10
<i>Stylidium drummondianum</i>	3	332609	6744460		3	11/10/2012	8
<i>Stylidium drummondianum</i>	3	333223	6744968		2	11/10/2012	10
<i>Stylidium drummondianum</i>	3	333274	6744944		4	11/10/2012	8
<i>Stylidium drummondianum</i>	3	333346	6744912		5	11/10/2012	8
<i>Stylidium drummondianum</i>	3	333379	6744896		3		8
<i>Stylidium drummondianum</i>	3	333428	6744856		5	11/10/2012	8
<i>Stylidium drummondianum</i>	3	333778	6742910		100	11/10/2012	8
<i>Stylidium drummondianum</i>	3	333928	6742762		100	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	333971	6741681	WE011		28/09/2011	8
<i>Stylidium drummondianum</i>	3	333988	6742003		100	11/10/2012	8
<i>Stylidium drummondianum</i>	3	334012	6740750		20	8/11/2012	7a
<i>Stylidium drummondianum</i>	3	334012	6741700		15	11/10/2012	7b

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Stylidium drummondianum</i>	3	334013	6745001		100	11/10/2012	10
<i>Stylidium drummondianum</i>	3	334044	6744749		50	11/10/2012	8
<i>Stylidium drummondianum</i>	3	334082	6743780	WE014		29/09/2011	7a
<i>Stylidium drummondianum</i>	3	334087	6742469		500	11/10/2012	8
<i>Stylidium drummondianum</i>	3	334088	6745002	WE022		24/10/2011	8
<i>Stylidium drummondianum</i>	3	334100	6745060		100	11/10/2012	8
<i>Stylidium drummondianum</i>	3	334111	6741591		100	11/10/2012	8
<i>Stylidium drummondianum</i>	3	334117	6742339		100	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	334127	6744809		250	11/10/2012	8
<i>Stylidium drummondianum</i>	3	334132	6744996		100	11/10/2012	8
<i>Stylidium drummondianum</i>	3	334135	6741623	WE012		28/09/2011	7b
<i>Stylidium drummondianum</i>	3	334170	6743952		6		9
<i>Stylidium drummondianum</i>	3	334173	6740918		200	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	334180	6743999		5	11/10/2012	9
<i>Stylidium drummondianum</i>	3	334241	6741265		1	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	334242	6741002		10	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	334249	6741085		30	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	334250	6743863	WE015		29/09/2011	9
<i>Stylidium drummondianum</i>	3	334259	6741385		100	11/10/2012	7b
<i>Stylidium drummondianum</i>	3	334263	6741055		100	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	334288	6741370			26/09/2011	7b
<i>Stylidium drummondianum</i>	3	334303	6741063		20	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	334306	6743975		2	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	334338	6740983	WE009		28/09/2011	7a
<i>Stylidium drummondianum</i>	3	334557	6740866		2	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	334933	6748093	WE077		24/11/2011	7a
<i>Stylidium drummondianum</i>	3	335103	6747272	WE068		23/11/2011	8
<i>Stylidium drummondianum</i>	3	335199	6747295		20	22/10/2012	8
<i>Stylidium drummondianum</i>	3	335207	6748051		50	22/10/2012	8
<i>Stylidium drummondianum</i>	3	335278	6740449		3	11/10/2012	8
<i>Stylidium drummondianum</i>	3	335284	6747270		30	22/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Stylidium drummondianum</i>	3	335292	6740675		2	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	335304	6740536		4		8
<i>Stylidium drummondianum</i>	3	335313	6747286	WE069		23/11/2011	8
<i>Stylidium drummondianum</i>	3	335315	6740622		8	11/10/2012	8
<i>Stylidium drummondianum</i>	3	335338	6740605		10	11/10/2012	8
<i>Stylidium drummondianum</i>	3	335344	6740456		3	11/10/2012	8
<i>Stylidium drummondianum</i>	3	335376	6740430		5	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	335394	6740446		5		8
<i>Stylidium drummondianum</i>	3	335418	6740441		11	11/10/2012	8
<i>Stylidium drummondianum</i>	3	335485	6747339		100	22/10/2012	8
<i>Stylidium drummondianum</i>	3	335498	6740136		4	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	335516	6740171		5	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	335552	6747178		6		8
<i>Stylidium drummondianum</i>	3	335607	6740020		4	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	335715	6740078		5	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	335734	6747230		10		8
<i>Stylidium drummondianum</i>	3	335736	6747143		30		8
<i>Stylidium drummondianum</i>	3	335784	6740087		2	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	335826	6740087		3		7a
<i>Stylidium drummondianum</i>	3	335868	6740760	WE090		26/11/2011	7b
<i>Stylidium drummondianum</i>	3	335870	6740066		4	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	335897	6747252		100	22/10/2012	8
<i>Stylidium drummondianum</i>	3	336000	6740093		13	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	336018	6747172		200	22/10/2012	8
<i>Stylidium drummondianum</i>	3	336177	6739953		1	11/10/2012	9
<i>Stylidium drummondianum</i>	3	336180	6747027		50	22/10/2012	8
<i>Stylidium drummondianum</i>	3	336206	6739936		10		9
<i>Stylidium drummondianum</i>	3	336261	6739825		5	11/10/2012	9
<i>Stylidium drummondianum</i>	3	336315	6739856		1		7a
<i>Stylidium drummondianum</i>	3	336322	6739467		8	11/10/2012	8
<i>Stylidium drummondianum</i>	3	336322	6739825		2	11/10/2012	8

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<i>Stylidium drummondianum</i>	3	336362	6739499	WE004		27/09/2011	8
<i>Stylidium drummondianum</i>	3	336367	6739613		6	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	336376	6739479		10		8
<i>Stylidium drummondianum</i>	3	336388	6739803		3	11/10/2012	8
<i>Stylidium drummondianum</i>	3	336407	6739701		8	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	336412	6739386	WE005		27/09/2011	7a
<i>Stylidium drummondianum</i>	3	336433	6739489		5	11/10/2012	8
<i>Stylidium drummondianum</i>	3	336458	6739833		2		7a
<i>Stylidium drummondianum</i>	3	336469	6739506		1	11/10/2012	8
<i>Stylidium drummondianum</i>	3	336498	6739530		3	11/10/2012	8
<i>Stylidium drummondianum</i>	3	336539	6746129	WE074		24/11/2011	7b
<i>Stylidium drummondianum</i>	3	336648	6739466		40		7a
<i>Stylidium drummondianum</i>	3	336692	6739205		2	11/10/2012	13a
<i>Stylidium drummondianum</i>	3	336762	6739361		3	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	336765	6739317		20	11/10/2012	7a
<i>Stylidium drummondianum</i>	3	336793	6739250		30		7a
<i>Stylidium drummondianum</i>	3	336917	6746683		20	23/10/2012	8
<i>Stylidium drummondianum</i>	3	336980	6744423		1	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337003	6744711		2	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337009	6744485		2	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337009	6744570		3	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337010	6744052		1	10/10/2012	13a
<i>Stylidium drummondianum</i>	3	337010	6746937		5	13/11/2012	8
<i>Stylidium drummondianum</i>	3	337011	6744218		2	10/10/2012	13a
<i>Stylidium drummondianum</i>	3	337015	6744141		1	10/10/2012	13a
<i>Stylidium drummondianum</i>	3	337017	6744415		4	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337035	6744597		30		7a
<i>Stylidium drummondianum</i>	3	337037	6744778		30		7a
<i>Stylidium drummondianum</i>	3	337042	6744075		20		13a
<i>Stylidium drummondianum</i>	3	337094	6744427		4	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337096	6744000		5	10/10/2012	13a

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<i>Stylidium drummondianum</i>	3	337096	6744328		2	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337096	6744369		4	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337097	6744050		3	10/10/2012	13a
<i>Stylidium drummondianum</i>	3	337098	6744179		4	10/10/2012	8
<i>Stylidium drummondianum</i>	3	337104	6744124		2	10/10/2012	13a
<i>Stylidium drummondianum</i>	3	337130	6744210		8		8
<i>Stylidium drummondianum</i>	3	337135	6744741		10		7a
<i>Stylidium drummondianum</i>	3	337154	6744697		10	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337163	6744186		10	10/10/2012	8
<i>Stylidium drummondianum</i>	3	337165	6744589		50	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337190	6744087		2	10/10/2012	8
<i>Stylidium drummondianum</i>	3	337190	6744238		6	10/10/2012	8
<i>Stylidium drummondianum</i>	3	337190	6744346		15	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337221	6744545		50	9/10/2012	13b
<i>Stylidium drummondianum</i>	3	337223	6744774		100	9/10/2012	7a
<i>Stylidium drummondianum</i>	3	337224	6748208		20	11/10/2012	8
<i>Stylidium drummondianum</i>	3	337225	6744469		50	9/10/2012	7a
<i>Stylidium drummondianum</i>	3	337250	6744000		20	10/10/2012	8
<i>Stylidium drummondianum</i>	3	337251	6744335		10	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337259	6744226		20	10/10/2012	8
<i>Stylidium drummondianum</i>	3	337280	6744000		30	10/10/2012	8
<i>Stylidium drummondianum</i>	3	337280	6744277		15	10/10/2012	8
<i>Stylidium drummondianum</i>	3	337280	6744700		10	10/10/2012	13b
<i>Stylidium drummondianum</i>	3	337291	6744314		2		7a
<i>Stylidium drummondianum</i>	3	337318	6744327		2		7a
<i>Stylidium drummondianum</i>	3	337358	6744348		2		7a
<i>Stylidium drummondianum</i>	3	337360	6742889		15	13/11/2012	7b
<i>Stylidium drummondianum</i>	3	337380	6746907		2	13/11/2012	7b
<i>Stylidium drummondianum</i>	3	337389	6746455	WE061		21/11/2011	8
<i>Stylidium drummondianum</i>	3	337390	6742963		20	13/11/2012	7b
<i>Stylidium drummondianum</i>	3	337509	6746771	WE062		21/11/2011	7b

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Stylidium drummondianum</i>	3	337626	6744033		3	10/10/2012	8
<i>Stylidium drummondianum</i>	3	337642	6747795		2		8
<i>Stylidium drummondianum</i>	3	337648	6747719		1	12/10/2012	8
<i>Stylidium drummondianum</i>	3	337660	6744599		38		13b
<i>Stylidium drummondianum</i>	3	337667	6744499		5		7a
<i>Stylidium drummondianum</i>	3	337672	6747863		5	12/10/2012	8
<i>Stylidium drummondianum</i>	3	337681	6747703		1	12/10/2012	8
<i>Stylidium drummondianum</i>	3	337686	6744289		20	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337691	6744375		20	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337695	6744523		200	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337700	6744067		20	10/10/2012	8
<i>Stylidium drummondianum</i>	3	337700	6747862		3	12/10/2012	8
<i>Stylidium drummondianum</i>	3	337715	6740616	WE056		21/11/2011	8
<i>Stylidium drummondianum</i>	3	337720	6744162		20	10/10/2012	8
<i>Stylidium drummondianum</i>	3	337720	6744400		15	10/10/2012	7a
<i>Stylidium drummondianum</i>	3	337720	6744796		5	10/10/2012	11
<i>Stylidium drummondianum</i>	3	337722	6747690		5		8
<i>Stylidium drummondianum</i>	3	337740	6739893	WE055		21/11/2011	7a
<i>Stylidium drummondianum</i>	3	337742	6745079	WE039		25/10/2011	7b
<i>Stylidium drummondianum</i>	3	337742	6746211		5	12/12/2012	8
<i>Stylidium drummondianum</i>	3	337747	6746233		10	12/10/2012	8
<i>Stylidium drummondianum</i>	3	337754	6744451		50	9/10/2012	7a
<i>Stylidium drummondianum</i>	3	337756	6744143		30	9/10/2012	8
<i>Stylidium drummondianum</i>	3	337778	6747793		5		8
<i>Stylidium drummondianum</i>	3	337822	6739289	WE002		26/09/2011	7a
<i>Stylidium drummondianum</i>	3	337861	6746125	WE081		24/11/2011	8
<i>Stylidium drummondianum</i>	3	337949	6746231		20	12/12/2012	8
<i>Stylidium drummondianum</i>	3	337981	6747472		2	12/10/2012	8
<i>Stylidium drummondianum</i>	3	338033	6746249		20	12/10/2012	7b
<i>Stylidium drummondianum</i>	3	338060	6743200		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338060	6743236		5	9/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Stylidium drummondianum</i>	3	338089	6742258		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338098	6747248		2	12/10/2012	8
<i>Stylidium drummondianum</i>	3	338103	6743403		50	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338107	6742291	WE059		21/11/2011	8
<i>Stylidium drummondianum</i>	3	338112	6743646		100	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338113	6740750		4		7a
<i>Stylidium drummondianum</i>	3	338115	6742488		50	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338118	6744134		100	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338119	6744033		200	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338124	6743056		7		8
<i>Stylidium drummondianum</i>	3	338126	6740689		20	12/12/2012	7a
<i>Stylidium drummondianum</i>	3	338131	6743554		20	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338132	6743584		50	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338136	6742692		20	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338142	6743027		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338150	6743574		20	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338150	6743680		29	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338150	6743703		24	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338150	6743870		17	10/10/2012	1b
<i>Stylidium drummondianum</i>	3	338150	6743893		30	10/10/2012	1b
<i>Stylidium drummondianum</i>	3	338150	6744100		75	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338150	6744500		25	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338154	6740956		4	12/10/2012	7a
<i>Stylidium drummondianum</i>	3	338155	6742655		30	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338157	6740775		1	12/10/2012	7a
<i>Stylidium drummondianum</i>	3	338172	6742594		20	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338176	6743010		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338181	6743502		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338182	6743606		20	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338183	6743826		50	9/10/2012	1b
<i>Stylidium drummondianum</i>	3	338207	6743828		16		1b



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Stylidium drummondianum</i>	3	338209	6743616		15		8
<i>Stylidium drummondianum</i>	3	338210	6743867		12		8
<i>Stylidium drummondianum</i>	3	338214	6743524		2		8
<i>Stylidium drummondianum</i>	3	338216	6742844		20	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338217	6740905		10	12/10/2012	7a
<i>Stylidium drummondianum</i>	3	338218	6742793		30	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338234	6743734		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338237	6743993		3	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338238	6743551		6	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338240	6742793		2	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338240	6742900		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338240	6742943		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338240	6743838		12	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338241	6744081		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338243	6740745	WE051		20/11/2011	7a
<i>Stylidium drummondianum</i>	3	338245	6743615		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338259	6740786		1	12/10/2012	7a
<i>Stylidium drummondianum</i>	3	338262	6742862		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338266	6740931		3		7a
<i>Stylidium drummondianum</i>	3	338266	6743697		2	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338270	6742803		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338270	6743572		2	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338278	6739687	WE113		11/09/2012	8
<i>Stylidium drummondianum</i>	3	338278	6740841		20	12/10/2012	7a
<i>Stylidium drummondianum</i>	3	338290	6743587		100	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338298	6743490		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338301	6743822		40	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338306	6742918		15		8
<i>Stylidium drummondianum</i>	3	338307	6743704		100	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338309	6742819		40		8
<i>Stylidium drummondianum</i>	3	338309	6744123		10	9/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Stylidium drummondianum</i>	3	338321	6740871		20	12/12/2012	7a
<i>Stylidium drummondianum</i>	3	338330	6742800		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338330	6743020		2	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338330	6744114		15	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338330	6744271		30	10/10/2012	1b
<i>Stylidium drummondianum</i>	3	338330	6744315		20	10/10/2012	1b
<i>Stylidium drummondianum</i>	3	338330	6744500		15	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338332	6742892		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338332	6743487		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338332	6743629		17	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338332	6743683		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338332	6743703		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338332	6743780		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338332	6743880		3	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338335	6742969		2	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338346	6740785		1	12/10/2012	7a
<i>Stylidium drummondianum</i>	3	338352	6744347		80	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338360	6742808		6	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338360	6744000		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338361	6743001		3	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338362	6742941		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338364	6743893		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338367	6743656		100	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338367	6743689		20	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338387	6740796		3	12/10/2012	7a
<i>Stylidium drummondianum</i>	3	338387	6743039		30	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338389	6742862		100	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338389	6743995		2		8
<i>Stylidium drummondianum</i>	3	338389	6744110		8		8
<i>Stylidium drummondianum</i>	3	338390	6742790		50	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338390	6743792		4		8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Stylidium drummondianum</i>	3	338391	6744301		5		8
<i>Stylidium drummondianum</i>	3	338396	6743210		20	9/10/2012	11
<i>Stylidium drummondianum</i>	3	338397	6743714		3		8
<i>Stylidium drummondianum</i>	3	338416	6743000		50	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338416	6743200		5	9/10/2012	11
<i>Stylidium drummondianum</i>	3	338416	6743275		5	9/10/2012	11
<i>Stylidium drummondianum</i>	3	338420	6744000		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338420	6744021		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338422	6743725		2	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338425	6744271		18	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338426	6744162		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338449	6742876		15	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338449	6743695		2	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338473	6740900		10	12/10/2012	7a
<i>Stylidium drummondianum</i>	3	338475	6743173		20		8
<i>Stylidium drummondianum</i>	3	338478	6743982		50	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338479	6743796		50	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338482	6743210		8		8
<i>Stylidium drummondianum</i>	3	338483	6744213		50	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338484	6744793		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338487	6744189		50	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338510	6744094		10	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338511	6743801		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338511	6743997		15	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338514	6743195		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338516	6743252		20	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338539	6743109		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338539	6743217		3	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338540	6743152		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338556	6740952		1	12/10/2012	10
<i>Stylidium drummondianum</i>	3	338559	6747799				8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Stylidium drummondianum</i>	3	338559	6747847				8
<i>Stylidium drummondianum</i>	3	338561	6747658				8
<i>Stylidium drummondianum</i>	3	338562	6747672				8
<i>Stylidium drummondianum</i>	3	338564	6747679				8
<i>Stylidium drummondianum</i>	3	338565	6743150		200	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338566	6747676				8
<i>Stylidium drummondianum</i>	3	338566	6747693				8
<i>Stylidium drummondianum</i>	3	338566	6747747				8
<i>Stylidium drummondianum</i>	3	338567	6744335		15		8
<i>Stylidium drummondianum</i>	3	338567	6747761				8
<i>Stylidium drummondianum</i>	3	338567	6747834				8
<i>Stylidium drummondianum</i>	3	338568	6742887		100	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338568	6743636		10		8
<i>Stylidium drummondianum</i>	3	338568	6747689				8
<i>Stylidium drummondianum</i>	3	338569	6743990		6		8
<i>Stylidium drummondianum</i>	3	338570	6743210		50	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338570	6744200		2		8
<i>Stylidium drummondianum</i>	3	338570	6747781				8
<i>Stylidium drummondianum</i>	3	338571	6747709				8
<i>Stylidium drummondianum</i>	3	338571	6747785				8
<i>Stylidium drummondianum</i>	3	338572	6743031		50	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338575	6742931		100	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338575	6744330	WE042		26/10/2011	8
<i>Stylidium drummondianum</i>	3	338576	6744662		7		8
<i>Stylidium drummondianum</i>	3	338587	6747872				8
<i>Stylidium drummondianum</i>	3	338589	6747919				11
<i>Stylidium drummondianum</i>	3	338595	6744638		3	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338596	6747710				8
<i>Stylidium drummondianum</i>	3	338598	6743202		30	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338598	6743529		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338600	6743210		50	8/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Stylidium drummondianum</i>	3	338600	6744000		4	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338600	6744417		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338600	6747756				8
<i>Stylidium drummondianum</i>	3	338600	6747807				8
<i>Stylidium drummondianum</i>	3	338601	6744374		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338604	6743147		20	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338607	6743957		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338609	6744888				8
<i>Stylidium drummondianum</i>	3	338615	6744983				8
<i>Stylidium drummondianum</i>	3	338617	6744398				8
<i>Stylidium drummondianum</i>	3	338620	6743103		10	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338624	6742846		100	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338625	6743928				8
<i>Stylidium drummondianum</i>	3	338627	6743181		5	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338629	6743368		2	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338629	6743400				8
<i>Stylidium drummondianum</i>	3	338630	6743143		40	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338630	6743211		4	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338630	6744226		1	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338631	6744215				8
<i>Stylidium drummondianum</i>	3	338631	6745680				11
<i>Stylidium drummondianum</i>	3	338634	6743450				8
<i>Stylidium drummondianum</i>	3	338637	6743860				8
<i>Stylidium drummondianum</i>	3	338637	6744020				8
<i>Stylidium drummondianum</i>	3	338642	6742974				8
<i>Stylidium drummondianum</i>	3	338647	6743115				8
<i>Stylidium drummondianum</i>	3	338651	6743765		10	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338652	6743873		100	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338656	6742868		10	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338658	6740963		5	12/10/2012	10
<i>Stylidium drummondianum</i>	3	338659	6742977		15	8/10/2012	8

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<i>Stylidium drummondianum</i>	3	338659	6744184		20	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338660	6743004		10	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338661	6743011		2	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338661	6743219				8
<i>Stylidium drummondianum</i>	3	338663	6742581				8
<i>Stylidium drummondianum</i>	3	338664	6744073		50	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338665	6741599				10
<i>Stylidium drummondianum</i>	3	338668	6742952		20	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338680	6740722				7a
<i>Stylidium drummondianum</i>	3	338682	6740354				7a
<i>Stylidium drummondianum</i>	3	338688	6740242				7a
<i>Stylidium drummondianum</i>	3	338688	6742928		150	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338690	6743492		50	9/10/2012	11
<i>Stylidium drummondianum</i>	3	338690	6743600		50	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338690	6743730		20	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338690	6744700		1	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338693	6743200		50	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338698	6742862		50	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338705	6740254				7a
<i>Stylidium drummondianum</i>	3	338705	6747853	WE065		21/11/2011	8
<i>Stylidium drummondianum</i>	3	338711	6743912		2	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338717	6743483		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338717	6748327				11
<i>Stylidium drummondianum</i>	3	338717	6748327				11
<i>Stylidium drummondianum</i>	3	338719	6743394		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338720	6742865		20	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338720	6743449		5	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338721	6743121		10	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338721	6747862		2		8
<i>Stylidium drummondianum</i>	3	338724	6743066		20	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338730	6742875				8

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<i>Stylidium drummondianum</i>	3	338732	6747918		1	12/10/2012	8
<i>Stylidium drummondianum</i>	3	338748	6743859		3	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338749	6743732		10	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338750	6743711		1	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338752	6743372		3	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338753	6743032		5	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338772	6744064		1	9/10/2012	1b
<i>Stylidium drummondianum</i>	3	338775	6747965				C
<i>Stylidium drummondianum</i>	3	338775	6748410				C
<i>Stylidium drummondianum</i>	3	338778	6743417		11	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338779	6743708		10	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338779	6743857		1	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338780	6742983		5	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338780	6744168		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338781	6744395		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338782	6743787		10	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338809	6743697		1	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338810	6743831		3	9/10/2012	8
<i>Stylidium drummondianum</i>	3	338814	6743117		1	8/10/2012	8
<i>Stylidium drummondianum</i>	3	338838	6743935				C
<i>Stylidium drummondianum</i>	3	338848	6742652		8		8
<i>Stylidium drummondianum</i>	3	338857	6743455		5	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338862	6742698		3		8
<i>Stylidium drummondianum</i>	3	338863	6743005		2	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338865	6742664		7		8
<i>Stylidium drummondianum</i>	3	338871	6743853		5	10/10/2012	C
<i>Stylidium drummondianum</i>	3	338876	6742659		2	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338878	6743142		1	10/10/2012	8
<i>Stylidium drummondianum</i>	3	338960	6742963				C
<i>Stylidium drummondianum</i>	3	338969	6744195				C
<i>Stylidium drummondianum</i>	3	339023	6744165				C



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<i>Stylidium drummondianum</i>	3	339070	6742540		50	5/10/2012	8D
<i>Stylidium drummondianum</i>	3	339234	6742510		20	5/10/2012	8D
<i>Stylidium drummondianum</i>	3	339550	6744313	SITE06	50	4/10/2012	1a
<i>Stylidium drummondianum</i>	3	339564	6742912	SITE09	5	4/10/2012	8
<i>Stylidium drummondianum</i>	3	339565	6744268		20	4/10/2012	8
<i>Stylidium drummondianum</i>	3	339617	6743112		20	5/10/2012	8
<i>Stylidium drummondianum</i>	3	339620	6742988		50	4/10/2012	8
<i>Stylidium drummondianum</i>	3	339640	6743108		50	5/10/2012	8
<i>Stylidium drummondianum</i>	3	339643	6742944		50	4/10/2012	8
<i>Stylidium drummondianum</i>	3	339650	6742903		100	4/10/2012	8
<i>Stylidium drummondianum</i>	3	339651	6743073		20	4/10/2012	8
<i>Stylidium drummondianum</i>	3	339674	6743054		100	4/10/2012	8
<i>Stylidium drummondianum</i>	3	339688	6743149		20	5/10/2012	8
<i>Stylidium drummondianum</i>	3	339712	6742994		100	4/10/2012	8
<i>Stylidium drummondianum</i>	3	339727	6742928		100	4/10/2012	8
<i>Stylidium drummondianum</i>	3	339728	6742869		100	4/10/2012	8
<i>Stylidium drummondianum</i>	3	339744	6743152		50	5/10/2012	8
<i>Stylidium drummondianum</i>	3	339745	6743113		50	5/10/2012	8
<i>Stylidium pseudocaespitosum</i>	2	334804	6743806			29/09/11	13a
<i>Stylidium torticarpum</i>	3	333971	6741681	WEC011	500	28/09/11	8
<i>Stylidium torticarpum</i>	3	333249	6742064	WEC036		24/10/11	9
<i>Stylidium torticarpum</i>	3	338218	6742793		2	9/10/12	8
<i>Stylidium torticarpum</i>	3	338275	6742986		6	9/10/12	8
<i>Stylidium torticarpum</i>	3	338600	6743064		1	8/10/12	8
<i>Stylidium torticarpum</i>	3	338205	6743074		1	9/10/12	11
<i>Stylidium torticarpum</i>	3	338090	6743129		1	9/10/12	7b
<i>Stylidium torticarpum</i>	3	338148	6743141		1	9/10/12	11
<i>Stylidium torticarpum</i>	3	338083	6743216		32	9/10/12	8
<i>Stylidium torticarpum</i>	3	338043	6743248		100	9/10/12	8
<i>Stylidium torticarpum</i>	3	338240	6743269		2	9/10/12	11
<i>Stylidium torticarpum</i>	3	338305	6743294		3		11

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<i>Stylidium torticarpum</i>	3	338060	6743300		20	9/10/12	1b
<i>Stylidium torticarpum</i>	3	337940	6743315	WEC046		26/10/11	1b
<i>Stylidium torticarpum</i>	3	338120	6743318		10	9/10/12	8
<i>Stylidium torticarpum</i>	3	338663	6743472		1	9/10/12	8
<i>Stylidium torticarpum</i>	3	338182	6743467		1	9/10/12	8
<i>Stylidium torticarpum</i>	3	338485	6743568		1	9/10/12	8
<i>Stylidium torticarpum</i>	3	338423	6743584		2	9/10/12	8
<i>Stylidium torticarpum</i>	3	338477	6743709		3	9/10/12	8
<i>Stylidium torticarpum</i>	3	338774	6744070		12	9/10/12	1b
<i>Stylidium torticarpum</i>	3	334250	6743863	WEC015		29/09/11	9
<i>Stylidium torticarpum</i>	3	338004	6743968		1	10/10/12	8
<i>Stylidium torticarpum</i>	3	337978	6743990		2	10/10/12	8
<i>Stylidium torticarpum</i>	3	337911	6743990		5	10/10/12	8
<i>Stylidium torticarpum</i>	3	338810	6744020		5	9/10/12	1b
<i>Stylidium torticarpum</i>	3	337915	6744022		1	9/10/12	8
<i>Stylidium torticarpum</i>	3	337754	6744026		10	9/10/12	8
<i>Stylidium torticarpum</i>	3	338810	6744116		7	9/10/12	8
<i>Stylidium torticarpum</i>	3	338330	6744155		2	10/10/12	8
<i>Stylidium torticarpum</i>	3	338426	6744162		2	9/10/12	8
<i>Stylidium torticarpum</i>	3	338969	6744195				C
<i>Stylidium torticarpum</i>	3	338240	6744238		5	9/10/12	1b
<i>Stylidium torticarpum</i>	3	339565	6744268		10	4/10/12	8
<i>Stylidium torticarpum</i>	3	338690	6744277		1	10/10/12	8
<i>Stylidium torticarpum</i>	3	338203	6744279	WEC020		30/09/11	1b
<i>Stylidium torticarpum</i>	3	339530	6744298		15	4/10/12	1a
<i>Stylidium torticarpum</i>	3	338182	6744358		2	9/10/12	1b
<i>Stylidium torticarpum</i>	3	338361	6744439		1	9/10/12	1b
<i>Stylidium torticarpum</i>	3	338430	6744442		2	9/10/12	8
<i>Stylidium torticarpum</i>	3	338805	6744448		20	10/10/12	8
<i>Stylidium torticarpum</i>	3	338805	6744471		6	10/10/12	8
<i>Stylidium torticarpum</i>	3	338690	6744512		1	10/10/12	8

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<i>Stylidium torticarpum</i>	3	336346	6744538	WEC045		26/10/11	9
<i>Stylidium torticarpum</i>	3	338690	6744600		1	10/10/12	8
<i>Stylidium torticarpum</i>	3	338780	6744649		1	9/10/12	11
<i>Stylidium torticarpum</i>	3	338690	6744727		1	10/10/12	8
<i>Stylidium torticarpum</i>	3	333692	6745829		10	11/10/12	7b
<i>Stylidium torticarpum</i>	3	333603	6746199		50	11/10/12	3
<i>Stylidium torticarpum</i>	3	333609	6746569	WEC071		23/11/11	3
<i>Stylidium torticarpum</i>	3	340699	6747127	WEC121	20	4/10/12	4
<i>Stylidium torticarpum</i>	3	340671	6747304	WEC120		4/10/12	4
<i>Stylidium torticarpum</i>	3	340992	6747350	WEC127		4/10/12	4
<i>Stylidium torticarpum</i>	3	335307	6747465		50	23/11/11	9
<i>Stylidium torticarpum</i>	3	334878	6747924		50	23/11/11	9
<i>Stylidium torticarpum</i>	3	334635	6748026	WEC076		24/11/11	9
<i>Stylidium torticarpum</i>	3	334226	6748371		100	22/10/12	9
<i>Stylidium torticarpum</i>	3	335261	6750535		1	3/10/12	4
<i>Stylidium torticarpum</i>	3	341135	6750890	SITE04	20	3/10/12	4
<i>Synaphea aephynsa</i>	3	333089	6744610		3	7/11/2012	13a
<i>Synaphea aephynsa</i>	3	333327	6744930		1		8
<i>Synaphea aephynsa</i>	3	333409	6744932		1	11/10/2012	10
<i>Synaphea aephynsa</i>	3	333445	6744858		1		8
<i>Synaphea aephynsa</i>	3	333454	6744835		1	11/10/2012	8
<i>Synaphea aephynsa</i>	3	333498	6744753		1	11/10/2012	8
<i>Synaphea aephynsa</i>	3	333533	6744745		1	11/10/2012	8
<i>Synaphea aephynsa</i>	3	333607	6744765		1		10
<i>Synaphea aephynsa</i>	3	333624	6745724		1	6/11/2012	12
<i>Synaphea aephynsa</i>	3	333921	6744947		20	11/10/2012	10
<i>Synaphea aephynsa</i>	3	333921	6745009		2	11/10/2012	10
<i>Synaphea aephynsa</i>	3	333928	6745103		1	7/11/2012	10
<i>Synaphea aephynsa</i>	3	333930	6741888		3	11/10/2012	8
<i>Synaphea aephynsa</i>	3	333955	6744971		30	11/10/2012	10
<i>Synaphea aephynsa</i>	3	333955	6745041		2	11/10/2012	10

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<i>Synaphea aephynsa</i>	3	333960	6744867		60	11/10/2012	8
<i>Synaphea aephynsa</i>	3	333980	6744880		15	11/10/2012	8
<i>Synaphea aephynsa</i>	3	333980	6744967		13	11/10/2012	10
<i>Synaphea aephynsa</i>	3	334004	6744860		3	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334011	6744956		3	11/10/2012	10
<i>Synaphea aephynsa</i>	3	334015	6744781		3	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334026	6741675		10	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334028	6741678		2	11/10/2012	7b
<i>Synaphea aephynsa</i>	3	334038	6744809		30	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334044	6744749		10	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334047	6744940		40	11/10/2012	10
<i>Synaphea aephynsa</i>	3	334070	6744707		30	11/10/2012	10
<i>Synaphea aephynsa</i>	3	334070	6744896		15	11/10/2012	10
<i>Synaphea aephynsa</i>	3	334096	6744816		3	11/10/2012	10
<i>Synaphea aephynsa</i>	3	334100	6745038		1	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334105	6742058		1	9/11/2012	8
<i>Synaphea aephynsa</i>	3	334105	6744881		5	11/10/2012	10
<i>Synaphea aephynsa</i>	3	334111	6741591		10	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334117	6742435		1	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334119	6742439		1	16/11/2012	8
<i>Synaphea aephynsa</i>	3	334121	6742474		5	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334127	6744809		1	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334135	6741623	WE012		28/09/2011	7b
<i>Synaphea aephynsa</i>	3	334160	6744033		1		9
<i>Synaphea aephynsa</i>	3	334162	6744794		4	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334190	6743949		1	11/10/2012	9
<i>Synaphea aephynsa</i>	3	334217	6741558		5	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334237	6741575		2	11/10/2012	8
<i>Synaphea aephynsa</i>	3	334242	6741002		2	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	334249	6741085		2	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	334249	6741563		4	11/10/2012	8

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<i>Synaphea aephynsa</i>	3	334259	6741385		5	11/10/2012	7b
<i>Synaphea aephynsa</i>	3	334263	6741055		5	10/10/2012	7a
<i>Synaphea aephynsa</i>	3	334265	6741019		2	10/10/2012	7a
<i>Synaphea aephynsa</i>	3	334279	6743993		1		7a
<i>Synaphea aephynsa</i>	3	334291	6741554		2	11/10/2012	7b
<i>Synaphea aephynsa</i>	3	334306	6743975		1	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	334313	6741499		4	10/10/2012	7b
<i>Synaphea aephynsa</i>	3	334321	6741494		2	11/10/2012	7b
<i>Synaphea aephynsa</i>	3	334433	6744361		3	8/11/2012	13a
<i>Synaphea aephynsa</i>	3	335292	6740675		1	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	335315	6740622		1	11/10/2012	8
<i>Synaphea aephynsa</i>	3	335324	6740619		2		8
<i>Synaphea aephynsa</i>	3	335394	6740446		2		8
<i>Synaphea aephynsa</i>	3	335412	6740295		4	11/10/2012	8
<i>Synaphea aephynsa</i>	3	335460	6740231		2	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	335495	6740171		3		7a
<i>Synaphea aephynsa</i>	3	335498	6740136		2	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	335516	6740103		1	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	335566	6740043		2	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	335607	6740020		3	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	335607	6740043		2		7a
<i>Synaphea aephynsa</i>	3	335624	6740024		1	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	335673	6747188		1	11/10/2012	8
<i>Synaphea aephynsa</i>	3	335705	6740052		2	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	335765	6740079		1	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	335826	6740087		4		7a
<i>Synaphea aephynsa</i>	3	335831	6744198		10	15/11/2012	7b
<i>Synaphea aephynsa</i>	3	335870	6740066		1	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	335935	6740065		1	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	335959	6740065		1	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	336021	6740077		2		7a

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Synaphea aephynsa</i>	3	336125	6740047		1	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	336206	6742798		2	14/11/2012	13a
<i>Synaphea aephynsa</i>	3	336213	6739916		1	11/10/2012	9
<i>Synaphea aephynsa</i>	3	336322	6739825		1	11/10/2012	8
<i>Synaphea aephynsa</i>	3	336350	6739816		1	11/10/2012	8
<i>Synaphea aephynsa</i>	3	336362	6739499	WE004		27/09/2011	8
<i>Synaphea aephynsa</i>	3	336388	6739803		1	11/10/2012	8
<i>Synaphea aephynsa</i>	3	336392	6740999		1	15/11/2012	7a
<i>Synaphea aephynsa</i>	3	336416	6740971		3	15/11/2012	7a
<i>Synaphea aephynsa</i>	3	336420	6739725		1000	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	336458	6739820		3		7a
<i>Synaphea aephynsa</i>	3	336539	6746129	WE074		24/11/2011	7b
<i>Synaphea aephynsa</i>	3	336591	6741202		5	15/11/2012	7a
<i>Synaphea aephynsa</i>	3	336604	6739568		6		7a
<i>Synaphea aephynsa</i>	3	336606	6739491		2	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	336683	6739426		2	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	336703	6739520		1		7a
<i>Synaphea aephynsa</i>	3	336715	6741205		2	15/11/2012	7a
<i>Synaphea aephynsa</i>	3	336740	6739393		3	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	336762	6739361		2	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	336765	6739317		2	11/10/2012	7a
<i>Synaphea aephynsa</i>	3	336777	6739370		2		7a
<i>Synaphea aephynsa</i>	3	336790	6741171		5	15/11/2012	7a
<i>Synaphea aephynsa</i>	3	336799	6748246		10	12/11/2012	10
<i>Synaphea aephynsa</i>	3	336886	6741207		2	15/11/2012	13a
<i>Synaphea aephynsa</i>	3	336940	6742403		5	8/11/2012	13a
<i>Synaphea aephynsa</i>	3	337190	6744598		10	10/10/2012	7a
<i>Synaphea aephynsa</i>	3	337268	6740153		2	14/11/2012	7a
<i>Synaphea aephynsa</i>	3	337269	6739038		4	14/11/2012	10
<i>Synaphea aephynsa</i>	3	337274	6739791		3	14/11/2012	7a
<i>Synaphea aephynsa</i>	3	337280	6744177		10	10/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Synaphea aephynsa</i>	3	337280	6744312		3	10/10/2012	7a
<i>Synaphea aephynsa</i>	3	337301	6739018		5	14/11/2012	10
<i>Synaphea aephynsa</i>	3	337354	6740165		5	14/11/2012	7a
<i>Synaphea aephynsa</i>	3	337571	6739137		30	14/11/2012	7a
<i>Synaphea aephynsa</i>	3	337579	6739832		7	14/11/2012	7a
<i>Synaphea aephynsa</i>	3	337581	6739142				7a
<i>Synaphea aephynsa</i>	3	337600	6740160		10	14/11/2012	7a
<i>Synaphea aephynsa</i>	3	337604	6739765		5	14/11/2012	7a
<i>Synaphea aephynsa</i>	3	337604	6739914		5	14/11/2012	7a
<i>Synaphea aephynsa</i>	3	337605	6739296		5	14/11/2012	7a
<i>Synaphea aephynsa</i>	3	337608	6740052		5	14/11/2012	7a
<i>Synaphea aephynsa</i>	3	337740	6739893	WE055		21/11/2011	7a
<i>Synaphea aephynsa</i>	3	337822	6739289	WE002		26/09/2011	7a
<i>Synaphea aephynsa</i>	3	338000	6741001		1	15/11/2012	7a
<i>Synaphea aephynsa</i>	3	338037	6740959		1	12/10/2012	7a
<i>Synaphea aephynsa</i>	3	338074	6740790		1	12/10/2012	7a
<i>Synaphea aephynsa</i>	3	338092	6742124		2	23/10/2012	8
<i>Synaphea aephynsa</i>	3	338103	6743403		15	9/10/2012	8
<i>Synaphea aephynsa</i>	3	338115	6742488		2	9/10/2012	8
<i>Synaphea aephynsa</i>	3	338121	6743460		30	9/10/2012	8
<i>Synaphea aephynsa</i>	3	338126	6740666		2	12/10/2012	7a
<i>Synaphea aephynsa</i>	3	338162	6742602		1	9/10/2012	8
<i>Synaphea aephynsa</i>	3	338189	6740931		2		7a
<i>Synaphea aephynsa</i>	3	338243	6740745	WE051		20/11/2011	7a
<i>Synaphea aephynsa</i>	3	338244	6740687		5	12/12/2012	7a
<i>Synaphea aephynsa</i>	3	338271	6740753		3		7a
<i>Synaphea aephynsa</i>	3	338278	6739687	WE113		11/09/2012	8
<i>Synaphea aephynsa</i>	3	338278	6740841		5	12/10/2012	7a
<i>Synaphea aephynsa</i>	3	338290	6740961		2	12/10/2012	7a
<i>Synaphea aephynsa</i>	3	338292	6740782		3	12/10/2012	7a
<i>Synaphea aephynsa</i>	3	338298	6740719		10	12/10/2012	7a



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Synaphea aeplynsa</i>	3	338307	6743704		5	9/10/2012	8
<i>Synaphea aeplynsa</i>	3	338309	6743953		20	9/10/2012	8
<i>Synaphea aeplynsa</i>	3	338321	6740871		2	12/10/2012	7a
<i>Synaphea aeplynsa</i>	3	338328	6740782		1	12/10/2012	7a
<i>Synaphea aeplynsa</i>	3	338329	6740966		1	12/10/2012	7a
<i>Synaphea aeplynsa</i>	3	338346	6740785		3	12/10/2012	7a
<i>Synaphea aeplynsa</i>	3	338354	6740902		10	12/10/2012	7a
<i>Synaphea aeplynsa</i>	3	338360	6740931		2		7a
<i>Synaphea aeplynsa</i>	3	338363	6740720		5	12/10/2012	7a
<i>Synaphea aeplynsa</i>	3	338370	6740786		5		7a
<i>Synaphea aeplynsa</i>	3	338422	6740841		15	12/10/2012	7a
<i>Synaphea aeplynsa</i>	3	338426	6740693		3	12/12/2012	7a
<i>Synaphea aeplynsa</i>	3	338482	6740720		5	12/10/2012	7a
<i>Synaphea aeplynsa</i>	3	338482	6740840		2	12/10/2012	7a
<i>Synaphea aeplynsa</i>	3	338528	6740840		1	12/10/2012	7a
<i>Synaphea aeplynsa</i>	3	338581	6740270		5	13/11/2012	7a
<i>Synaphea aeplynsa</i>	3	338688	6740242				7a
<i>Synaphea aeplynsa</i>	3	338753	6740653		5	12/10/2012	7a
<i>Synaphea oulopha</i>	1	332609	6744460		1	11/10/2012	8
<i>Synaphea oulopha</i>	1	333266	6744948		1	11/10/2012	8
<i>Synaphea oulopha</i>	1	333332	6744939		2	11/10/2012	8
<i>Synaphea oulopha</i>	1	333379	6744896		2		8
<i>Synaphea oulopha</i>	1	333584	6744778		1	11/10/2012	10
<i>Synaphea oulopha</i>	1	333751	6744829		3	7/11/2012	10
<i>Synaphea oulopha</i>	1	334250	6741860		1	9/11/2012	7b
<i>Synaphea oulopha</i>	1	334263	6743964		3	11/10/2012	7a
<i>Synaphea oulopha</i>	1	334288	6742150		3	16/11/2012	10
<i>Synaphea oulopha</i>	1	335156	6747346		1	22/10/2012	8
<i>Synaphea oulopha</i>	1	335324	6740660		2	11/10/2012	8
<i>Synaphea oulopha</i>	1	335630	6740060		2	11/10/2012	7a
<i>Synaphea oulopha</i>	1	335690	6747210		1		8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Synaphea oulopha</i>	1	335736	6747143		1		8
<i>Synaphea oulopha</i>	1	335872	6740103		1	11/10/2012	7a
<i>Synaphea oulopha</i>	1	336000	6740093		3	11/10/2012	7a
<i>Synaphea oulopha</i>	1	336134	6747139		1	5/11/2012	8
<i>Synaphea oulopha</i>	1	336346	6744538	WE045		26/10/2011	9
<i>Synaphea oulopha</i>	1	336450	6739864		5	11/10/2012	7a
<i>Synaphea oulopha</i>	1	336500	6745552		2	7/11/2012	7b
<i>Synaphea oulopha</i>	1	336563	6742765		5	14/11/2012	7b
<i>Synaphea oulopha</i>	1	336720	6739460		2	11/10/2012	7a
<i>Synaphea oulopha</i>	1	336830	6740974		2	15/11/2012	13a
<i>Synaphea oulopha</i>	1	336905	6740970		1	15/11/2012	13a
<i>Synaphea oulopha</i>	1	336947	6747014		6	13/11/2012	8
<i>Synaphea oulopha</i>	1	336971	6744582		10	10/10/2012	7a
<i>Synaphea oulopha</i>	1	336977	6744831		10	10/10/2012	7a
<i>Synaphea oulopha</i>	1	336980	6744379		10	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337008	6744452		4	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337009	6744485		5	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337009	6744515		2	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337010	6746937		10	13/11/2012	8
<i>Synaphea oulopha</i>	1	337011	6744159		1	10/10/2012	13a
<i>Synaphea oulopha</i>	1	337030	6746755		2	13/11/2012	8
<i>Synaphea oulopha</i>	1	337037	6744778		4		7a
<i>Synaphea oulopha</i>	1	337039	6744550		4		7a
<i>Synaphea oulopha</i>	1	337041	6744165		2		13a
<i>Synaphea oulopha</i>	1	337046	6744370		5		7a
<i>Synaphea oulopha</i>	1	337067	6744200		10	10/10/2012	13a
<i>Synaphea oulopha</i>	1	337073	6744353		10	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337073	6744493		20	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337090	6744347		2	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337093	6744665		1	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337094	6744807		2	10/10/2012	7a

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<i>Synaphea oulopha</i>	1	337095	6744537		1	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337096	6744328		1	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337096	6744369		4	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337097	6744050		4	10/10/2012	13a
<i>Synaphea oulopha</i>	1	337097	6744498		6	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337099	6744091		4	10/10/2012	13a
<i>Synaphea oulopha</i>	1	337101	6744213		1	10/10/2012	8
<i>Synaphea oulopha</i>	1	337102	6744730		1	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337103	6744257		1	10/10/2012	8
<i>Synaphea oulopha</i>	1	337103	6744749		3	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337106	6744143		1	10/10/2012	8
<i>Synaphea oulopha</i>	1	337129	6744373		3		7a
<i>Synaphea oulopha</i>	1	337130	6744792		1		7a
<i>Synaphea oulopha</i>	1	337133	6744507		1		7a
<i>Synaphea oulopha</i>	1	337136	6744661		3		7a
<i>Synaphea oulopha</i>	1	337154	6744697		5	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337160	6744000		2	10/10/2012	8
<i>Synaphea oulopha</i>	1	337160	6744362		10	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337163	6744186		3	10/10/2012	8
<i>Synaphea oulopha</i>	1	337165	6744491		7	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337165	6744589		3	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337165	6744777		5	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337174	6748454		1	11/10/2012	11
<i>Synaphea oulopha</i>	1	337217	6743998		30	9/10/2012	8
<i>Synaphea oulopha</i>	1	337219	6744052		20	9/10/2012	8
<i>Synaphea oulopha</i>	1	337225	6744209		30	9/10/2012	8
<i>Synaphea oulopha</i>	1	337225	6744469		5	9/10/2012	7a
<i>Synaphea oulopha</i>	1	337226	6744320		20	9/10/2012	7a
<i>Synaphea oulopha</i>	1	337280	6744600		5	10/10/2012	13b
<i>Synaphea oulopha</i>	1	337332	6744029		5	9/10/2012	8
<i>Synaphea oulopha</i>	1	337580	6742897		5	13/11/2012	7b

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<i>Synaphea oulopha</i>	1	337625	6744767		2	10/10/2012	11
<i>Synaphea oulopha</i>	1	337626	6744033		1	10/10/2012	8
<i>Synaphea oulopha</i>	1	337628	6744012		1	10/10/2012	8
<i>Synaphea oulopha</i>	1	337631	6744239		1	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337631	6744723		1	10/10/2012	11
<i>Synaphea oulopha</i>	1	337632	6744153		1	10/10/2012	8
<i>Synaphea oulopha</i>	1	337650	6744763		3		11
<i>Synaphea oulopha</i>	1	337651	6747858		1	12/10/2012	8
<i>Synaphea oulopha</i>	1	337659	6744221		3		8
<i>Synaphea oulopha</i>	1	337660	6744106		2		8
<i>Synaphea oulopha</i>	1	337680	6744248		5	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337685	6744716		3	10/10/2012	11
<i>Synaphea oulopha</i>	1	337686	6744289		5	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337690	6744800		15	10/10/2012	11
<i>Synaphea oulopha</i>	1	337691	6744375		2	10/10/2012	7a
<i>Synaphea oulopha</i>	1	337749	6744514		10	9/10/2012	7a
<i>Synaphea oulopha</i>	1	337749	6744694		5	9/10/2012	11
<i>Synaphea oulopha</i>	1	337752	6744376		20	9/10/2012	7a
<i>Synaphea oulopha</i>	1	337753	6744627		20	9/10/2012	11
<i>Synaphea oulopha</i>	1	337754	6744451		20	9/10/2012	7a
<i>Synaphea oulopha</i>	1	337754	6744762		20	9/10/2012	11
<i>Synaphea oulopha</i>	1	337756	6744143		10	9/10/2012	8
<i>Synaphea oulopha</i>	1	337757	6744315		50	9/10/2012	7a
<i>Synaphea oulopha</i>	1	337800	6746911		5	13/11/2012	7b
<i>Synaphea oulopha</i>	1	337830	6742778		5	13/11/2012	7b
<i>Synaphea oulopha</i>	1	337884	6747853		1	12/10/2012	8
<i>Synaphea oulopha</i>	1	337949	6746231		2	12/12/2012	8
<i>Synaphea oulopha</i>	1	337966	6743903		1	10/10/2012	8
<i>Synaphea oulopha</i>	1	337972	6746248		1	12/10/2012	8
<i>Synaphea oulopha</i>	1	338012	6746179		1	12/10/2012	7b
<i>Synaphea oulopha</i>	1	338112	6743646		50	9/10/2012	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Synaphea oulopha</i>	1	338120	6744099		10	9/10/2012	8
<i>Synaphea oulopha</i>	1	338123	6744930		20	9/10/2012	11
<i>Synaphea oulopha</i>	1	338124	6743704		20	9/10/2012	8
<i>Synaphea oulopha</i>	1	338124	6743809		30	9/10/2012	1b
<i>Synaphea oulopha</i>	1	338132	6742966		10		8
<i>Synaphea oulopha</i>	1	338132	6743584		10	9/10/2012	8
<i>Synaphea oulopha</i>	1	338179	6743644		1	9/10/2012	8
<i>Synaphea oulopha</i>	1	338182	6743467		5	9/10/2012	8
<i>Synaphea oulopha</i>	1	338182	6743606		2	9/10/2012	8
<i>Synaphea oulopha</i>	1	338185	6743899		10	9/10/2012	8
<i>Synaphea oulopha</i>	1	338195	6743742		3	9/10/2012	8
<i>Synaphea oulopha</i>	1	338210	6743624		4		8
<i>Synaphea oulopha</i>	1	338210	6746953		5	13/11/2012	11
<i>Synaphea oulopha</i>	1	338234	6743734		2	9/10/2012	8
<i>Synaphea oulopha</i>	1	338293	6743633		1	9/10/2012	8
<i>Synaphea oulopha</i>	1	338317	6740809		7	12/10/2012	7a
<i>Synaphea oulopha</i>	1	338330	6744315		3	10/10/2012	1b
<i>Synaphea oulopha</i>	1	338358	6744299		1	9/10/2012	8
<i>Synaphea oulopha</i>	1	338383	6744286		1		8
<i>Synaphea oulopha</i>	1	338483	6744004		2	9/10/2012	8
<i>Synaphea oulopha</i>	1	338483	6744540		1	9/10/2012	8
<i>Synaphea oulopha</i>	1	338485	6744405		2	9/10/2012	8
<i>Synaphea oulopha</i>	1	338538	6743709		1	9/10/2012	8
<i>Synaphea oulopha</i>	1	338545	6743959				8
<i>Synaphea oulopha</i>	1	338552	6747792				8
<i>Synaphea oulopha</i>	1	338559	6747799				8
<i>Synaphea oulopha</i>	1	338568	6743966	WE043		26/10/2011	8
<i>Synaphea oulopha</i>	1	338569	6743990		2		8
<i>Synaphea oulopha</i>	1	338570	6744246		1		8
<i>Synaphea oulopha</i>	1	338572	6744274		2		8
<i>Synaphea oulopha</i>	1	338575	6744330	WE042		26/10/2011	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Synaphea oulopha</i>	1	338594	6744015		1	9/10/2012	8
<i>Synaphea oulopha</i>	1	338625	6743928				8
<i>Synaphea oulopha</i>	1	338670	6744074		1	9/10/2012	8
<i>Synaphea oulopha</i>	1	338679	6740971		5	15/11/2012	10
<i>Synaphea oulopha</i>	1	338766	6747979		40	9/10/2012	C
<i>Synaphea oulopha</i>	1	340191	6748434		1	9/11/2012	7a
<i>Synaphea oulopha</i>	1	340267	6748447		1	9/11/2012	7a
<i>Synaphea oulopha</i>	1	340270	6748373		2	9/11/2012	7a
<i>Synaphea oulopha</i>	1	340289	6748447		3	9/11/2012	7a
<i>Synaphea ?oulopha</i>	1	336650	6743957		1		13a
<i>Synaphea ?oulopha</i>	1	336882	6744083		1		13a
<i>Synaphea ?oulopha</i>	1	337837	6744612		1		11
<i>Synaphea ?oulopha</i>	1	337925	6744659		2		11
<i>Thelymitra stellata</i>	T	337097	6738933		2	12/10/12	8
<i>Thelymitra stellata</i>	T	337050	6738938		2	12/10/12	8
<i>Thelymitra stellata</i>	T	336699	6739422		1	11/10/12	7a
<i>Thelymitra stellata</i>	T	336350	6739816		1	11/10/12	8
<i>Thelymitra stellata</i>	T	335440	6740297		1	11/10/12	8
<i>Thelymitra stellata</i>	T	338115	6740831		2	12/10/12	7a
<i>Thelymitra stellata</i>	T	334276	6741425		1	24/10/11	7b
<i>Thelymitra stellata</i>	T	338215	6742086		1	23/10/12	8
<i>Thelymitra stellata</i>	T	338187	6742101		1	23/10/12	7a
<i>Thelymitra stellata</i>	T	338185	6742108		2	23/10/12	7a
<i>Thelymitra stellata</i>	T	337732	6742129		1	23/10/12	8
<i>Thelymitra stellata</i>	T	337750	6742141		2	23/10/12	8
<i>Thelymitra stellata</i>	T	337739	6742153		1	23/10/12	8
<i>Thelymitra stellata</i>	T	338139	6742375		2	9/10/12	8
<i>Thelymitra stellata</i>	T	338112	6742406		1	9/10/12	7a
<i>Thelymitra stellata</i>	T	336940	6742403		1	8/11/12	13a
<i>Thelymitra stellata</i>	T	338695	6743787		3	9/10/12	8
<i>Thelymitra stellata</i>	T	338572	6743031		1	8/10/12	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Thelymitra stellata</i>	T	338387	6743039		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338707	6743087		2	8/10/12	8
<i>Thelymitra stellata</i>	T	338588	6743115		1	8/10/12	8
<i>Thelymitra stellata</i>	T	338576	6743118		4	8/10/12	8
<i>Thelymitra stellata</i>	T	338707	6743141		1	8/10/12	8
<i>Thelymitra stellata</i>	T	338598	6743202		1	8/10/12	8
<i>Thelymitra stellata</i>	T	338657	6743209		1	8/10/12	8
<i>Thelymitra stellata</i>	T	338655	6743211		3	27/10/11	8
<i>Thelymitra stellata</i>	T	338681	6743212		1	27/10/11	8
<i>Thelymitra stellata</i>	T	338657	6743229		1	27/10/11	8
<i>Thelymitra stellata</i>	T	338650	6743230		1	27/10/11	8
<i>Thelymitra stellata</i>	T	338396	6743227		1	9/10/12	11
<i>Thelymitra stellata</i>	T	338657	6743241		2	27/10/11	8
<i>Thelymitra stellata</i>	T	338695	6743247		1	27/10/11	8
<i>Thelymitra stellata</i>	T	338565	6743277		1	27/10/11	8
<i>Thelymitra stellata</i>	T	338623	6743279		1	5/10/12	8
<i>Thelymitra stellata</i>	T	338632	6743281		1	5/10/12	8
<i>Thelymitra stellata</i>	T	338658	6743282		2	27/10/11	8
<i>Thelymitra stellata</i>	T	338642	6743282		1	5/10/12	8
<i>Thelymitra stellata</i>	T	338611	6743302		1	27/10/11	8
<i>Thelymitra stellata</i>	T	338587	6743311		1	27/10/11	8
<i>Thelymitra stellata</i>	T	338592	6743320		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338621	6743325		2	27/10/11	8
<i>Thelymitra stellata</i>	T	338579	6743326		4	27/10/11	8
<i>Thelymitra stellata</i>	T	338568	6743336		3	27/10/11	8
<i>Thelymitra stellata</i>	T	338653	6743348		2	27/10/11	8
<i>Thelymitra stellata</i>	T	338569	6743360		1	27/10/11	8
<i>Thelymitra stellata</i>	T	338648	6743370		1	27/10/11	8
<i>Thelymitra stellata</i>	T	338664	6743407		3	9/10/12	8
<i>Thelymitra stellata</i>	T	338662	6743412		1	27/10/11	8
<i>Thelymitra stellata</i>	T	338545	6743468		1	9/10/12	11



<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Thelymitra stellata</i>	T	338809	6743539		4	9/10/11	8
<i>Thelymitra stellata</i>	T	338451	6743534		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338426	6743554		3	9/10/12	8
<i>Thelymitra stellata</i>	T	338488	6743558		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338426	6743561		10	9/10/12	8
<i>Thelymitra stellata</i>	T	338485	6743568		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338541	6743572		2	9/10/12	8
<i>Thelymitra stellata</i>	T	338480	6743580		2	9/10/12	8
<i>Thelymitra stellata</i>	T	338476	6743581		2	9/10/12	8
<i>Thelymitra stellata</i>	T	338482	6743584		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338486	6743590		2	9/10/12	8
<i>Thelymitra stellata</i>	T	338182	6743606		4	9/10/12	8
<i>Thelymitra stellata</i>	T	338508	6743663		6	9/10/12	8
<i>Thelymitra stellata</i>	T	338510	6743667		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338541	6743673		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338420	6744050		4	9/10/12	8
<i>Thelymitra stellata</i>	T	338778	6743871		1	8/10/12	8
<i>Thelymitra stellata</i>	T	338711	6743912		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338599	6743937		3	9/10/12	8
<i>Thelymitra stellata</i>	T	338602	6743952		2	9/10/12	8
<i>Thelymitra stellata</i>	T	338575	6743985		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338539	6743994		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338540	6744000		1	9/10/12	8
<i>Thelymitra stellata</i>	T	337778	6743990		1	10/10/12	8
<i>Thelymitra stellata</i>	T	338425	6744044		7	9/10/12	8
<i>Thelymitra stellata</i>	T	338664	6744073		1	9/10/12	8
<i>Thelymitra stellata</i>	T	338670	6744074		2	9/10/12	8
<i>Thelymitra stellata</i>	T	338536	6744101		1	9/10/12	8
<i>Thelymitra stellata</i>	T	337950	6744098		1	10/10/12	8
<i>Thelymitra stellata</i>	T	338448	6744118		1	9/10/12	8
<i>Thelymitra stellata</i>	T	337162	6744232		1	10/10/12	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Thelymitra stellata</i>	T	336980	6744508		1	10/10/12	7a
<i>Thelymitra stellata</i>	T	337714	6746127		1	12/12/12	8
<i>Thelymitra stellata</i>	T	337719	6746148		1	12/12/12	8
<i>Thelymitra stellata</i>	T	337724	6746151		1	12/10/12	8
<i>Thelymitra stellata</i>	T	337719	6746151		3	12/10/12	8
<i>Thelymitra stellata</i>	T	337760	6746153		1	12/10/12	8
<i>Thelymitra stellata</i>	T	337726	6746159		6	12/12/12	8
<i>Thelymitra stellata</i>	T	337803	6746188		3	12/10/12	8
<i>Thelymitra stellata</i>	T	337818	6746189		1	12/10/12	8
<i>Thelymitra stellata</i>	T	337807	6746192		2	12/10/12	8
<i>Thelymitra stellata</i>	T	337741	6746198		4	12/12/12	8
<i>Thelymitra stellata</i>	T	337770	6746199		1	12/10/12	8
<i>Thelymitra stellata</i>	T	337804	6746209		5	12/10/12	8
<i>Thelymitra stellata</i>	T	337811	6746210		3	12/10/12	8
<i>Thelymitra stellata</i>	T	337815	6746212		1	12/10/12	8
<i>Thelymitra stellata</i>	T	337754	6746212		3	12/10/12	8
<i>Thelymitra stellata</i>	T	337807	6746215		1	12/12/12	8
<i>Thelymitra stellata</i>	T	337820	6746216		6	12/10/12	8
<i>Thelymitra stellata</i>	T	337811	6746223		2	12/12/12	8
<i>Thelymitra stellata</i>	T	337758	6746226		1	12/12/12	8
<i>Thelymitra stellata</i>	T	336126	6747113		1	22/10/12	8
<i>Thelymitra stellata</i>	T	336109	6747116		2	22/10/12	8
<i>Thelymitra stellata</i>	T	336126	6747119		1	22/10/12	8
<i>Thelymitra stellata</i>	T	336075	6747120		1	22/10/12	8
<i>Thelymitra stellata</i>	T	336049	6747144		7	22/10/12	8
<i>Thelymitra stellata</i>	T	336058	6747148		5	22/10/12	8
<i>Thelymitra stellata</i>	T	335648	6747155		1	11/10/12	8
<i>Thelymitra stellata</i>	T	335659	6747164		3	11/10/12	8
<i>Thelymitra stellata</i>	T	335668	6747169		2	11/10/12	8
<i>Thelymitra stellata</i>	T	335673	6747171		3	11/10/12	8
<i>Thelymitra stellata</i>	T	335661	6747173		1	11/10/12	8

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
<i>Thelymitra stellata</i>	T	335717	6747176		2	11/10/12	8
<i>Thelymitra stellata</i>	T	335669	6747183		5	11/10/12	8
<i>Thelymitra stellata</i>	T	335658	6747183		2	11/10/12	8
<i>Thelymitra stellata</i>	T	335673	6747188		2	11/10/12	8
<i>Thelymitra stellata</i>	T	335650	6747190		1	11/10/12	8
<i>Thelymitra stellata</i>	T	335324	6747192		1	22/10/12	8
<i>Thelymitra stellata</i>	T	335836	6747201		1	11/10/12	8
<i>Thelymitra stellata</i>	T	335764	6747201		1	11/10/12	8
<i>Thelymitra stellata</i>	T	335678	6747200		1	22/10/12	8
<i>Thelymitra stellata</i>	T	335776	6747205		3	11/10/12	8
<i>Thelymitra stellata</i>	T	335348	6747202		1	22/10/12	8
<i>Thelymitra stellata</i>	T	338052	6747242		1		8
<i>Thelymitra stellata</i>	T	335325	6747204		1	22/10/12	8
<i>Thelymitra stellata</i>	T	335303	6747205		2	22/10/12	8
<i>Thelymitra stellata</i>	T	335337	6747208		1	22/10/12	8
<i>Thelymitra stellata</i>	T	335337	6747214		2	22/10/12	8
<i>Thelymitra stellata</i>	T	335343	6747220		2	22/10/12	8
<i>Thelymitra stellata</i>	T	335338	6747220		1	22/10/12	8
<i>Thelymitra stellata</i>	T	335346	6747225		2	22/10/12	8
<i>Thelymitra stellata</i>	T	335359	6747233		1	22/10/12	8
<i>Thelymitra stellata</i>	T	335897	6747252		1	22/10/12	8
<i>Thelymitra stellata</i>	T	335320	6747257		4	22/10/12	8
<i>Thelymitra stellata</i>	T	335173	6747335		1	22/10/12	8
<i>Thelymitra stellata</i>	T	335180	6747342		3	22/10/12	8
<i>Thelymitra stellata</i>	T	338763	6747800		1	10/10/12	8
<i>Thelymitra stellata</i>	T	337903	6747858		1	12/10/12	8
<i>Thelymitra stellata</i>	T	338717	6747914		1	12/10/12	8
<i>Thelymitra stellata</i>	T	338729	6747919		3	12/10/12	8
<i>Thelymitra ?stellata</i>	T	337779	6742453		1	8/11/12	7b
<i>Thelymitra ?stellata</i>	T	337067	6744625		1	10/10/12	7a
<i>Thelymitra ?stellata</i>	T	337069	6744677		1	10/10/12	7a

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<i>Thelymitra ?stellata</i>	T	337217	6744718		2	9/10/12	7a
<i>Thelymitra ?stellata</i>	T	337740	6746163		2	12/10/12	8
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	3	340699	6747127		20	4/10/12	4
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	3	340992	6747350	WEC127		4/10/12	4
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	3	340306	6748420		25	9/11/12	7a
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	3	335074	6750504	WEC092	30	3/10/12	4
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	3	337718	6750570	SITE03	20	3/10/12	5
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	3	335184	6750800	WEC094	5	3/10/12	4
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	3	341135	6750890	SITE04	100	3/10/12	4
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)	3	334722	6750839	WEC121	20	2/10/12	4D
<i>Verticordia luteola</i> var. <i>luteola</i>	3	332073	6740661		1	25/11/11	13a
<i>Verticordia luteola</i> var. <i>luteola</i>	3	331798	6740758		20	25/11/11	13a
* <i>Arctotheca calendula</i>	Introduced	335121	6750643	WE091		3/10/12	4
* <i>Arctotheca calendula</i>	Introduced	333937	6749011	WE097		12/09/12	14
* <i>Arctotheca calendula</i>	Introduced	334653	6750841	SITE01		2/10/12	4D
* <i>Arctotheca calendula</i>	Introduced	335074	6750504	WE092		3/10/12	4
* <i>Arctotheca calendula</i>	Introduced	335144	6750477	WE093		3/10/12	4
* <i>Arctotheca calendula</i>	Introduced	338243	6739383	WE112			1a
* <i>Arctotheca calendula</i>	Introduced	337808	6739503	WE001		26/09/11	1a
* <i>Arctotheca calendula</i>	Introduced	331705	6741485	WE024		25/10/11	14
* <i>Arctotheca calendula</i>	Introduced	334119	6748240	WE031		26/10/11	10
* <i>Arctotheca calendula</i>	Introduced	338203	6744279	WE020		30/09/11	1b
* <i>Avena barbata</i>	Introduced	334653	6750841	SITE01		2/10/12	4D

Taxon	Conservation Code	Easting	Northing	Location	Plant Count	Observation Date	Vegetation Type (VT)
* <i>Avena barbata</i>	Introduced	335121	6750643	WE091		3/10/12	4
* <i>Brassica tournefortii</i>	Introduced	335144	6750477	WE093		3/10/12	4
* <i>Brassica tournefortii</i>	Introduced	335184	6750800	WE094		3/10/12	4
* <i>Briza maxima</i>	Introduced	340699	6747127	WE121		4/10/12	4
* <i>Briza maxima</i>	Introduced	335074	6750504	WE092		3/10/12	4
* <i>Briza maxima</i>	Introduced	335121	6750643	WE091		3/10/12	4
* <i>Briza maxima</i>	Introduced	335184	6750800	WE094		3/10/12	4
* <i>Bromus diandrus</i>	Introduced	334653	6750841	SITE01		2/10/12	4D
* <i>Bromus diandrus</i>	Introduced	335144	6750477	WE093		3/10/12	4
* <i>Cuscuta epithymum</i>	Introduced	340699	6747127	WE121		4/10/12	4
* <i>Echium plantagineum</i>	Introduced	334653	6750841	SITE01		2/10/12	4D
* <i>Echium plantagineum</i>	Introduced	334701	6750526	SITE02		3/10/12	PC1D
* <i>Echium plantagineum</i>	Introduced	335144	6750477	WE093		3/10/12	4
* <i>Ehrharta brevifolia</i>	Introduced	338243	6739383	WE112			1a
* <i>Ehrharta calycina</i>	Introduced	337808	6739503	WE001		26/09/11	1a
* <i>Ehrharta longiflora</i>	Introduced	335184	6750800	WE094		3/10/12	4
* <i>Ehrharta longiflora</i>	Introduced	335121	6750643	WE091		3/10/12	4
* <i>Ehrharta longiflora</i>	Introduced	335074	6750504	WE092		3/10/12	4
* <i>Ehrharta longiflora</i>	Introduced	340154	6748470	WE119		3/10/12	7a
* <i>Ehrharta longiflora</i>	Introduced	335144	6750477	WE093		3/10/12	4
* <i>Ehrharta longiflora</i>	Introduced	341260	6748366	WE117		5/10/12	5
* <i>Erodium cicutarium</i>	Introduced	335121	6750643	WE091		3/10/12	4
* <i>Erodium cicutarium</i>	Introduced	334653	6750841	SITE01		2/10/12	4D
* <i>Erodium cicutarium</i>	Introduced	340783	6747271	WE122		4/10/12	6
* <i>Erodium cicutarium</i>	Introduced	335144	6750477	WE093		3/10/12	4
* <i>Hypochaeris glabra</i>	Introduced	335184	6750800	WE094		3/10/12	4
* <i>Hypochaeris glabra</i>	Introduced	335121	6750643	WE091		3/10/12	4
* <i>Hypochaeris glabra</i>	Introduced	341260	6748366	WE117		5/10/12	5
* <i>Hypochaeris glabra</i>	Introduced	340783	6747271	WE122		4/10/12	6
* <i>Hypochaeris glabra</i>	Introduced	340992	6747350	WE127		4/10/12	4
* <i>Hypochaeris glabra</i>	Introduced	340671	6747304	WE120		4/10/12	4

<b>Taxon</b>	<b>Conservation Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Location</b>	<b>Plant Count</b>	<b>Observation Date</b>	<b>Vegetation Type (VT)</b>
* <i>Hypochaeris glabra</i>	Introduced	335074	6750504	WE092		3/10/12	4
* <i>Hypochaeris glabra</i>	Introduced	335144	6750477	WE093		3/10/12	4
* <i>Hypochaeris glabra</i>	Introduced	334119	6748240	WE031		26/10/11	10
* <i>Hypochaeris glabra</i>	Introduced	337808	6739503	WE001		26/09/11	1a
* <i>Hypochaeris glabra</i>	Introduced	331909	6741361	WE023		25/10/11	10
* <i>Hypochaeris glabra</i>	Introduced	331705	6741485	WE024		25/10/11	14
* <i>Hypochaeris glabra</i>	Introduced	333677	6746827	WE034		26/10/11	13b
* <i>Hypochaeris glabra</i>	Introduced	338203	6744279	WE020		30/09/11	1b
* <i>Isolepis marginata</i>	Introduced	337808	6739503	WE001		26/09/11	1a
* <i>Lysimachia arvensis</i>	Introduced	335074	6750504	WE092		3/10/12	4
* <i>Lysimachia arvensis</i>	Introduced	335121	6750643	WE091		3/10/12	4
* <i>Lysimachia arvensis</i>	Introduced	340783	6747271	WE122		4/10/12	6
* <i>Lysimachia arvensis</i>	Introduced	338203	6744279	WE020		30/09/11	1b
* <i>Monoculus monstrosus</i>	Introduced	334653	6750841	SITE01		2/10/12	4D
* <i>Parentucellia latifolia</i>	Introduced	340699	6747127	WE121		4/10/12	4
* <i>Parentucellia latifolia</i>	Introduced	334653	6750841	SITE01		2/10/12	4D
* <i>Parentucellia latifolia</i>	Introduced	337808	6739503	WE001		26/09/11	1a
* <i>Pentameris airoides subsp. airoides</i>	Introduced	340699	6747127	WE121		4/10/12	4
* <i>Pentameris airoides subsp. airoides</i>	Introduced	340671	6747304	WE120		4/10/12	4
* <i>Pentameris airoides subsp. airoides</i>	Introduced	335184	6750800	WE094		3/10/12	4
* <i>Pentameris airoides subsp. airoides</i>	Introduced	338243	6739383	WE112			1a
* <i>Pentameris airoides subsp. airoides</i>	Introduced	340783	6747271	WE122		4/10/12	6
* <i>Pentameris airoides subsp. airoides</i>	Introduced	335121	6750643	WE091		3/10/12	4
* <i>Pentameris airoides subsp. airoides</i>	Introduced	337808	6739503	WE001		26/09/11	1a

Taxon	Conservation Code	Easting	Northing	Location	Plant Count	Observation Date	Vegetation Type (VT)
<i>*Pentameris airoides subsp. airoides</i>	Introduced	338203	6744279	WE020		30/09/11	1b
<i>*Pentameris airoides subsp. airoides</i>	Introduced	333677	6746827	WE034		26/10/11	13b
<i>*Pentameris airoides subsp. airoides</i>	Introduced	338107	6742291	WE059		21/11/11	8
<i>*Petrorhagia dubia</i>	Introduced	334653	6750841	SITE01		2/10/12	4D
<i>*Trifolium campestre var. campestre</i>	Introduced	340783	6747271	WE122		4/10/12	6
<i>*Ursinia anthemoides</i>	Introduced	335074	6750504	WE092		3/10/12	4
<i>*Ursinia anthemoides</i>	Introduced	335184	6750800	WE094		3/10/12	4
<i>*Ursinia anthemoides</i>	Introduced	338243	6739383	WE112			1a
<i>*Ursinia anthemoides</i>	Introduced	335144	6750477	WE093		3/10/12	4
<i>*Ursinia anthemoides</i>	Introduced	340154	6748470	WE119		3/10/12	7a
<i>*Ursinia anthemoides</i>	Introduced	335121	6750643	WE091		3/10/12	4
<i>*Ursinia anthemoides</i>	Introduced	341260	6748366	WE117		5/10/12	5
<i>*Ursinia anthemoides</i>	Introduced	340671	6747304	WE120		4/10/12	4
<i>*Ursinia anthemoides</i>	Introduced	334382	6740263	WE007		27/09/11	14
<i>*Ursinia anthemoides</i>	Introduced	337808	6739503	WE001		26/09/11	1a
<i>*Vulpia myuros</i>	Introduced	340783	6747271	WE122		4/10/12	6
<i>*Vulpia myuros</i>	Introduced	335121	6750643	WE091		3/10/12	4
<i>*Vulpia myuros</i>	Introduced	335074	6750504	WE092		3/10/12	4
<i>*Vulpia myuros</i>	Introduced	334653	6750841	SITE01		2/10/12	4D
<i>*Vulpia myuros</i>	Introduced	335184	6750800	WE094		3/10/12	4
<i>*Vulpia myuros</i>	Introduced	340671	6747304	WE120		4/10/12	4
<i>*Vulpia myuros</i>	Introduced	335144	6750477	WE093		3/10/12	4
<i>*Vulpia myuros</i>	Introduced	341469	6748497	SITE10		5/10/12	11
<i>*Vulpia myuros</i>	Introduced	331705	6741485	WE024		25/10/11	14
<i>*Wahlenbergia capensis</i>	Introduced	337808	6739503	WE001		26/09/11	1a
<i>*Wahlenbergia capensis</i>	Introduced	334498	6740034	WE006		27/09/11	13a



## Appendix J: List of Vascular Plant Taxa Omitted or Grouped Together Within the Data Matrix for Analysis

<b>Taxon</b>	<b>Amalgamation/Deletion</b>
<i>Acacia ?fagonioides</i>	Amalgamated
<i>Acacia fagonioides</i>	
<i>Acacia lasiocarpa</i> var. <i>?bracteolata</i>	Amalgamated
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	
<i>Amphipogon caricinus</i> var. <i>caricinus</i>	Amalgamated
<i>Amphipogon caricinus</i>	
<i>Banksia fraseri</i> var. <i>?fraseri</i>	Amalgamated
<i>Banksia fraseri</i> var. <i>fraseri</i>	
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	Amalgamated
<i>Drosera macrantha</i>	
<i>Drosera ?menziesii</i>	Amalgamated
<i>Drosera menziesii</i> subsp. <i>menziesii</i>	
<i>Eucalyptus macrocarpa</i> x <i>pyriformis</i>	Amalgamated
<i>Eucalyptus ?macrocarpa</i> x <i>pyriformis</i>	
<i>Goodenia hassallii</i>	Amalgamated
<i>Goodenia</i> aff. <i>hassallii</i>	
<i>Hakea orthorrhyncha</i> var. <i>filiformis</i>	Amalgamated
<i>Hakea orthorrhyncha</i>	
<i>Levenhookia ?stipitata</i>	Amalgamated
<i>Levenhookia stipitata</i>	
<i>Lomandra micrantha</i> subsp. <i>?micrantha</i>	Amalgamated
<i>Lomandra micrantha</i> subsp. <i>micrantha</i>	
<i>Melaleuca leuropoma</i>	Amalgamated
<i>Melaleuca</i> aff. <i>leuropoma</i>	
<i>?Mesomelaena preissi</i>	Amalgamated
<i>Mesomelaena preissii</i>	
<i>Thryptomene ?racemulosa</i>	Amalgamated
<i>Thryptomene racemulosa</i>	
<i>?Amphipogon</i> sp.	Deleted – insufficient material for identification
<i>Cassytha</i> sp.	Deleted – insufficient material for identification
<i>?Schoenus</i> sp.	Deleted – insufficient material for identification
<i>?Thysanotus</i> sp.	Deleted – insufficient material for identification

## Appendix K: Vascular Plant Taxa Recorded within Each Vegetation Type within the West Erregulla Study Area

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Acacia aciphylla</i>						X											
<i>Acacia acuaria</i>									X	X		X	X				
<i>Acacia acuminata</i>					X												
<i>Acacia auronitens</i>								X				X					
<i>Acacia barbinervis</i> subsp. <i>borealis</i>									X						X	X	
<i>Acacia blakelyi</i>					X							X	X		X	X	
<i>Acacia comans</i>								X	X	X		X					
<i>Acacia dilatata</i>								X	X	X						X	X
<i>Acacia ericksoniae</i>				X													
<i>Acacia fagonioides</i>									X							X	
<i>Acacia ?fagonioides</i>										X					X		
<i>Acacia ?idiomorpha</i>											X						
<i>Acacia isoneura</i> subsp. <i>isoneura</i>						X											
<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>	X				X				X						X	X	X
<i>Acacia lasiocarpa</i> var. <i>?bracteolata</i>		X						X		X						X	
<i>Acacia neurophylla</i> subsp. <i>neurophylla</i>					X	X											
<i>Acacia pulchella</i>															X		
<i>Acacia saligna</i>					X												X
<i>Acacia sessilis</i>										X							
<i>Acacia stenoptera</i>									X						X	X	
<i>Acanthocarpus canaliculatus</i>		X															
<i>Acanthocarpus</i> sp. <i>Ajana</i> (C.A. Gardner 8596)					X				X	X		X	X	X			
<i>Actinotus leucocephalus</i>									X	X		X	X	X	X	X	X
<i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i>															X	X	
<i>Alexgeorgea nitens</i>															X		
<i>Allocasuarina campestris</i>				X	X	X	X	X	X	X	X	X	X	X		X	X
<i>Allocasuarina grevilleoides</i>										X							
<i>Allocasuarina humilis</i>								X	X	X		X		X	X	X	X
<i>Allocasuarina microstachya</i>								X	X	X		X	X	X			X
<i>Amphipogon caricinus</i>					X			X	X	X	X	X	X				X

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
? <i>Amphipogon</i> sp.									X	X		X	X				
<i>Amphipogon turbinatus</i>									X	X		X	X		X	X	
<i>Anarthria polyphylla</i>																	X
<i>Andersonia lehmanniana</i>								X	X						X		
<i>Anigozanthos humilis</i> subsp. <i>humilis</i>									X			X		X	X	X	X
<i>Anigozanthos pulcherrimus</i>															X		
<i>Anthocercis genistoides</i>	X									X							
* <i>Arctotheca calendula</i>	X	X			X							X					X
<i>Arthropodium dyeri</i>					X												
<i>Astroloma glaucescens</i>								X	X	X		X					X
<i>Astroloma microdonta</i>								X	X			X					
<i>Astroloma pedicellatum</i> ms		X		X	X			X		X	X	X	X			X	
<i>Astroloma serratifolium</i>												X					
<i>Astroloma xerophyllum</i>									X						X		
<i>Austrostipa compressa</i>									X				X			X	X
<i>Austrostipa elegantissima</i>		X			X			X									
<i>Austrostipa hemipogon</i>															X	X	
<i>Austrostipa macalpinei</i>	X				X			X	X	X		X	X	X	X	X	X
<i>Austrostipa</i> sp. Marchagee (B.R. Maslin 1407)	X	X															
<i>Austrostipa variabilis</i>					X												
* <i>Avena barbata</i>					X												
<i>Babingtonia camphorosmae</i>								X	X		X	X		X	X	X	X
<i>Baeckea crispiflora</i> var. <i>tenuior</i>				X				X		X							
<i>Baeckea grandiflora</i>								X	X	X		X	X	X	X	X	
<i>Banksia attenuata</i>												X		X		X	
<i>Banksia bipinnatifida</i> subsp. <i>multifida</i>									X							X	
<i>Banksia carlinoides</i>								X	X	X		X		X	X	X	X
<i>Banksia dallanneyi</i> subsp. <i>media</i>									X			X		X	X	X	X
<i>Banksia fraseri</i> var. <i>fraseri</i>					X			X	X	X	X	X	X				
<i>Banksia leptophylla</i> var. <i>melletica</i>															X	X	
<i>Banksia prionotes</i>																X	
<i>Banksia scabrella</i>								X	X			X		X	X	X	

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Banksia sessilis</i> var. <i>flabellifolia</i>										X				X	X	X	
<i>Banksia shuttleworthiana</i>								X	X	X		X	X	X	X	X	X
<i>Beaufortia elegans</i>									X	X		X		X	X	X	
<i>Blennospora drummondii</i>					X												
<i>Boronia coerulescens</i> subsp. <i>spinescens</i>									X	X		X	X				
<i>Boronia cymosa</i>								X	X	X	X	X	X				X
<i>Boronia ramosa</i> subsp. <i>anethifolia</i>								X	X					X	X		
<i>Borya sphaerocephala</i>				X	X			X	X	X	X		X				X
<i>Bossiaea eriocarpa</i>															X		X
<i>Brachyscome iberidifolia</i>			X														
<i>Brachyscome perpusilla</i>		X															
* <i>Brassica tournefortii</i>					X												
* <i>Briza maxima</i>					X												
* <i>Bromus diandrus</i>					X												
<i>Burchardia congesta</i>					X			X	X	X		X	X	X	X		X
<i>Caladenia flava</i>					X			X	X		X						X
<i>Calandrinia calyptrata</i>	X	X															
<i>Calandrinia corrigioloides</i>	X																
<i>Calandrinia</i> sp. Blackberry (D.M. Porter 171)		X	X		X												
<i>Calectasia hispida</i>									X						X		
<i>Calectasia narragara</i>										X					X		
<i>Calothamnus longissimus</i>								X	X	X	X		X				
<i>Calothamnus quadrifidus</i> subsp. <i>angustifolius</i>	X				X			X	X	X	X	X	X	X	X	X	X
<i>Calothamnus sanguineus</i>								X	X	X		X		X	X	X	X
<i>Calotis hispidula</i>		X															
<i>Calytrix depressa</i>								X	X		X						X
<i>Calytrix flavescens</i>								X	X		X	X					
<i>Calytrix fraseri</i>								X							X	X	
<i>Calytrix gracilis</i>										X	X						
<i>Calytrix leschenaultii</i>								X									
<i>Calytrix oldfieldii</i>								X									
<i>Calytrix sapphirina</i>												X		X	X	X	X

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Calytrix strigosa</i>					X							X	X			X	
<i>Cassya flava</i>					X			X	X	X		X		X	X	X	
<i>Cassya glabella</i> forma <i>bicallosa</i>								X	X	X	X	X	X	X	X	X	
<i>Cassya</i> ? <i>pomiformis</i>								X	X	X	X	X	X		X	X	X
<i>Cassya</i> ? <i>racemosa</i>				X				X									
<i>Cassya</i> sp.														X			
<i>Caustis dioica</i>								X	X	X		X		X	X	X	X
<i>Centrolepis aristata</i>											X						
<i>Centrolepis pilosa</i>														X		X	
<i>Centrolepis polygyna</i>																	X
<i>Chamaescilla corymbosa</i>										X							
<i>Chamaescilla versicolor</i>				X	X			X		X							X
<i>Cheilanthes adiantoides</i>					X					X							
<i>Chordifex sinuosus</i>								X	X			X			X	X	X
<i>Chorizema aciculare</i> subsp. <i>laxum</i>								X	X	X		X					X
<i>Chorizema racemosum</i>				X													
<i>Clematicissus angustissima</i>							X										
<i>Comesperma acerosum</i>									X						X		
<i>Comesperma calymega</i>									X							X	
<i>Comesperma volubile</i>				X						X	X						
<i>Conospermum boreale</i> subsp. ? <i>ascendens</i>									X	X		X	X	X	X	X	
<i>Conostephium preissii</i>												X			X		
<i>Conostylis aculeata</i> subsp. <i>breviflora</i>	X							X						X	X	X	X
<i>Conostylis androstemma</i>								X	X	X	X	X	X				
<i>Conostylis candicans</i>																X	X
<i>Conostylis canteriata</i>								X	X			X		X	X	X	X
<i>Conostylis crassinervia</i> subsp. <i>absens</i>															X		
<i>Conostylis dielsii</i> subsp. <i>dielsii</i>								X	X	X	X	X	X				X
<i>Conostylis hiemalis</i>									X						X		
<i>Conostylis prolifera</i>					X												
<i>Conostylis resinosa</i>														X			
<i>Crassula colorata</i> var. <i>acuminata</i>	X	X	X		X									X		X	X

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Cristonia biloba</i>								X	X	X		X			X	X	
<i>Cryptandra intermedia</i> (atypical variant)				X													
<i>Cryptandra myriantha</i>					X			X	X	X	X	X	X		X		X
<i>Cryptandra nutans</i>										X							
<i>Cryptandra pungens</i>								X	X	X	X	X	X				
<i>Cryptandra spyridioides</i>									X			X					
* <i>Cuscuta epithymum</i>					X												
<i>Dampiera alata</i>				X							X						
<i>Dampiera altissima</i>					X												
<i>Dampiera juncea</i>																	X
<i>Dampiera lavandulacea</i>								X		X							
<i>Dampiera lindleyi</i>				X				X	X	X	X					X	X
<i>Dampiera oligophylla</i>					X				X	X		X	X	X		X	
<i>Dampiera spicigera</i>					X			X	X	X		X	X			X	
<i>Dampiera teres</i>					X					X	X						X
<i>Dampiera teres</i> (broad-leaf variant)								X	X	X		X					X
<i>Darwinia speciosa</i>								X	X			X		X		X	X
<i>Daucus glochidiatus</i>		X															
<i>Daviesia angulata</i>																	X
<i>Daviesia daphnoides</i>								X	X	X		X					
<i>Daviesia divaricata</i> subsp. <i>divaricata</i> ms												X	X	X		X	
<i>Daviesia hakeoides</i> subsp. <i>subnuda</i>								X	X	X	X	X	X				
<i>Daviesia incrassata</i> subsp. <i>teres</i>									X	X					X		
<i>Daviesia nudiflora</i>									X			X	X	X	X	X	
<i>Daviesia oxyclada</i>								X	X	X						X	X
<i>Daviesia pedunculata</i>								X	X	X		X		X	X		
<i>Daviesia triflora</i>										X							
<i>Daviesia ?umbonata</i>									X	X			X				
<i>Desmocladius asper</i>	X	X			X										X	X	X
<i>Desmocladius lateriticus</i>								X	X							X	
<i>Desmocladius parthenicus</i>									X				X	X	X		
<i>Desmocladius semiplanus</i>									X						X	X	X

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Dianella revoluta</i>	X	X							X	X							
<i>Dichopogon preissii</i>				X													
<i>Diplolaena eneabbensis</i>								X	X	X					X		X
<i>Diplopeltis huegelii</i> subsp. <i>lehmannii</i>		X													X	X	
<i>Diuris laxiflora</i>																	X
<i>Diuris setacea</i>										X	X						
<i>Dodonaea divaricata</i>		X															
<i>Dodonaea ericoides</i>								X		X	X						
<i>Drosera eneabba</i>								X						X			
<i>Drosera erythrorhiza</i>								X	X					X			X
<i>Drosera ?leucoblata</i>												X					
<i>Drosera macrantha</i> subsp. <i>macrantha</i>				X						X		X		X	X		X
<i>Drosera menziesii</i> subsp. <i>menziesii</i>								X				X					X
<i>Drosera ?menziesii</i>												X				X	
<i>Drosera ?porrecta</i>					X				X			X		X	X		X
<i>Drosera pilos</i>								X		X							
<i>Ecdeiocolea monostachya</i>					X	X		X	X	X	X	X	X	X			X
* <i>Echium plantagineum</i>					X												
* <i>Ehrharta brevifolia</i>	X																
* <i>Ehrharta calycina</i>	X																
* <i>Ehrharta longiflora</i>					X	X		X									
<i>Elythranthera brunonis</i>								X		X	X						X
<i>Enchylaena tomentosa</i>		X															
<i>Eremaea beaufortoides</i> var. <i>microphylla</i>								X	X			X		X	X	X	X
<i>Eremaea ectadioclada</i>									X					X	X	X	
<i>Eremaea violacea</i> subsp. <i>violacea</i>												X	X			X	
* <i>Erodium cicutarium</i>					X		X										
<i>Eucalyptus accedens</i>	X	X	X	X													
<i>Eucalyptus arachnaea</i> subsp. <i>arachnaea</i>				X													
<i>Eucalyptus conveniens</i>								X	X	X			X				
<i>Eucalyptus loxophleba</i> subsp. <i>loxophleba</i>			X				X										
<i>Eucalyptus macrocarpa</i> x <i>pyriformis</i>									X								



	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Eucalyptus pyriformis</i>													X				
<i>Eucalyptus</i> sp. (unidentified 2)													X				
<i>Eucalyptus todtiana</i>														X	X	X	
<i>Gastrolobium bennettsianum</i>				X													
<i>Gastrolobium callistachys</i>		X			X												
<i>Gastrolobium plicatum</i>		X						X	X	X	X	X					
<i>Gastrolobium spinosum</i>	X								X	X			X				
<i>Geleznovia verrucosa</i>								X	X	X		X	X	X			
<i>Glischrocaryon aureum</i>		X		X	X			X	X	X	X						
<i>Gnephosis angianthoides</i>					X												
<i>Gnephosis drummondii</i>					X			X									X
<i>Gnephosis tenuissima</i>													X				X
<i>Gompholobium knightianum</i>									X								
<i>Gompholobium marginatum</i>										X							
<i>Gompholobium muticum</i>										X			X				
<i>Gompholobium pungens</i>	X																
<i>Gompholobium tomentosum</i>															X	X	X
<i>Gonocarpus nodulosus</i>					X												
<i>Gonocarpus pithyoides</i>															X		
<i>Goodenia berardiana</i>		X															
<i>Goodenia coerulea</i>								X	X	X		X	X		X	X	X
<i>Goodenia hassallii</i>								X	X	X							
<i>Goodenia</i> aff. <i>hassallii</i>										X							
<i>Goodenia micrantha</i>											X						
<i>Goodenia trichophylla</i>								X	X		X						X
<i>Grevillea biformis</i> subsp. <i>biformis</i>										X		X	X	X			
<i>Grevillea biternata</i>					X					X	X						
<i>Grevillea eriostachya</i>												X	X				
<i>Grevillea shuttleworthiana</i> subsp. <i>canarina</i>												X		X			
<i>Grevillea umbellulata</i>				X				X		X							X
<i>Guichenotia angustifolia</i>				X							X						
<i>Guichenotia micrantha</i>										X							

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Guichenotia sarotes</i>								X		X	X						
<i>Haemodorum brevisepalum</i>																	X
<i>Haemodorum discolor</i>										X			X				
<i>Haemodorum spicatum</i>												X			X		
<i>Hakea auriculata</i>								X	X	X	X	X					
<i>Hakea brownii</i>									X								
<i>Hakea circumalata</i>								X	X	X	X	X	X	X			X
<i>Hakea costata</i>									X					X	X	X	X
<i>Hakea cygna</i> subsp. <i>cygna</i>												X	X	X		X	
<i>Hakea incrassata</i>								X	X	X	X	X	X	X			X
<i>Hakea lissocarpha</i>	X		X		X			X	X	X	X	X				X	X
<i>Hakea meisneriana</i>										X							
<i>Hakea orthorrhyncha</i> var. <i>filiformis</i>					X												
<i>Hakea polyanthema</i>									X			X	X	X	X	X	X
<i>Hakea prostrata</i>											X				X		
<i>Hakea psilorrhyncha</i>															X		
<i>Hakea smilacifolia</i>													X				
<i>Hakea spathulata</i>					X			X	X	X	X	X					X
<i>Hakea stenocarpa</i>								X	X	X		X					X
<i>Hakea trifurcata</i>					X			X	X	X				X	X	X	X
<i>Halgania</i> sp. Wongan Hills (K.F. Kenneally 2393)									X	X							
<i>Harperia lateriflora</i>									X							X	X
<i>Hemiandra rubriflora</i>									X								
<i>Hemigenia drummondii</i>					X												
<i>Hemiphora bartlingii</i>																X	
<i>Hibbertia acerosa</i>								X							X	X	X
<i>Hibbertia crassifolia</i>								X	X	X	X	X		X	X	X	X
<i>Hibbertia huegelii</i>															X		
<i>Hibbertia hypericoides</i>				X	X			X	X	X	X	X	X	X	X	X	X
<i>Hibbertia spicata</i> subsp. <i>spicata</i>		X						X	X	X	X	X			X		
<i>Hibbertia subvaginata</i>															X	X	
<i>Homalosciadium homalocarpum</i>					X												

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Hovea pungens</i>	X														X		
<i>Hyalosperma cotula</i>													X	X		X	X
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>									X								
<i>Hydrocotyle hispidula</i>																	X
<i>Hypocalymma hirsutum</i>								X	X	X	X	X		X	X	X	X
<i>Hypocalymma xanthopetalum</i>								X				X			X		X
* <i>Hypochaeris glabra</i>	X	X			X	X	X					X				X	X
* <i>Isolepis marginata</i>	X																
<i>Isopogon divergens</i>								X	X	X		X					
<i>Isopogon tridens</i>												X					
<i>Isotoma hypocrateriformis</i>		X						X	X	X	X	X	X			X	X
<i>Isotropis cuneifolia</i>															X	X	X
<i>Isotropis drummondii</i>									X	X							
<i>Jacksonia angulata</i>								X			X						X
<i>Jacksonia foliosa</i>								X	X	X							
<i>Jacksonia hakeoides</i>	X				X				X			X			X	X	X
<i>Jacksonia macrocalyx</i>									X	X		X	X				
<i>Jacksonia nutans</i>									X			X		X		X	
<i>Jacksonia restioides</i>								X	X	X		X					
<i>Jacksonia sternbergiana</i>					X										X		
<i>Johnsonia pubescens</i> subsp. <i>pubescens</i>									X						X		
<i>Lagenophora huegelii</i>		X															
<i>Lambertia multiflora</i> var. <i>multiflora</i>									X	X					X		X
<i>Lasiopetalum drummondii</i>									X			X		X	X		X
<i>Lasiopetalum ogilvieanum</i>															X		
<i>Lasiopetalum</i> sp. Watheroo (K. Shepherd & C. Wilkins KS 220)									X								
<i>Laxmannia omnifertilis</i>								X	X								
<i>Laxmannia sessiliflora</i> subsp. <i>drummondii</i>					X				X			X			X	X	X
<i>Lechenaultia biloba</i>									X								
<i>Lechenaultia hirsuta</i>															X		
<i>Lechenaultia linarioides</i>					X												
<i>Lepidobolus chaetocephalus</i>									X								

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>					X			X	X	X	X	X	X	X		X	X
<i>Lepidosperma brunonianum</i> sens. lat.								X	X	X		X	X				
<i>Lepidosperma</i> aff. <i>costale</i>									X								X
<i>Lepidosperma pubisquameum</i>								X	X	X		X					X
<i>Lepidosperma</i> aff. <i>scabrum</i>								X	X		X	X	X				X
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)				X				X		X	X						
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)								X	X	X	X						
<i>Lepidosperma tenue</i>		X			X	X		X	X	X	X			X		X	X
<i>Leporella fimbriata</i>																	X
<i>Leptomeria empetriformis</i>								X	X			X					
<i>Leptosema aphyllum</i>																	X
<i>Leptospermum oligandrum</i>					X				X			X		X	X		
<i>Leptospermum spinescens</i>									X			X	X	X	X		
<i>Leucopogon glaucifolius</i>																	X
<i>Leucopogon hamulosus</i>													X				
<i>Leucopogon hispidus</i>									X			X		X	X	X	
<i>Leucopogon leptanthus</i>								X			X	X					
<i>Leucopogon planifolius</i>												X	X				
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)								X	X			X		X	X		X
<i>Leucopogon</i> sp. Burma Road (M. Hislop 2032)											X						
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)												X			X	X	X
<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)								X		X	X						
<i>Levenhookia octomaculata</i>															X	X	X
<i>Levenhookia pusilla</i>								X	X	X		X					X
<i>Levenhookia stipitata</i>								X				X	X	X	X	X	X
<i>Lissanthe powelliae</i>											X						
<i>Lobelia rarifolia</i>									X		X						
<i>Lobelia rhytidisperma</i>									X			X	X			X	X
<i>Logania spermacoea</i>												X	X				
<i>Lomandra hastilis</i>															X	X	
<i>Lomandra micrantha</i> subsp. <i>micrantha</i>					X			X									X
<i>Lyginia imberbis</i>															X	X	

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>*Lysimachia arvensis</i>		X			X		X										
<i>Lysinema pentapetalum</i>									X			X		X	X		X
<i>Macrozamia fraseri</i>	X														X		
<i>Marianthus bicolor</i>										X	X						
<i>Marianthus ringens</i>				X													
<i>Melaleuca acutifolia</i>			X	X													
<i>Melaleuca aspalathoides</i>					X			X	X	X	X	X	X	X			X
<i>Melaleuca concreta</i>				X	X			X		X	X						X
<i>Melaleuca aff.leuropoma</i>								X	X		X			X	X	X	X
<i>Melaleuca leuropoma</i>					X				X			X	X	X	X	X	X
<i>Melaleuca marginata</i>				X			X			X	X						
<i>Melaleuca radula</i>				X	X	X		X	X	X	X		X				X
<i>Melaleuca tinkeri</i>								X		X	X						
<i>Melaleuca trichophylla</i>								X	X					X			X
<i>Melaleuca viminea</i> subsp. <i>viminea</i>						X											
<i>Mesomelaena preissii</i>								X		X		X	X				
<i>Mesomelaena pseudostygia</i>					X			X	X	X	X	X	X	X	X	X	X
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i>										X		X	X	X			
<i>Mesomelaena tetragona</i>								X	X			X				X	X
<i>Micromyrtus rogeri</i>								X		X	X						
<i>Millotia myosotidifolia</i>	X																
<i>Mirbelia floribunda</i>								X			X						
<i>Mirbelia trichocalyx</i>										X		X				X	
<i>Monotaxis bracteata</i>									X			X					X
<i>Muehlenbeckia adpressa</i>			X														
<i>Neurachne alopecuroidea</i>		X		X	X	X		X	X	X	X	X	X	X	X	X	X
<i>Nuytsia floribunda</i>															X		
<i>Olearia ?dampieri</i>		X		X	X												
<i>Olearia rudis</i>	X	X															
<i>Opercularia vaginata</i>	X				X			X	X	X	X	X	X	X	X	X	X
<i>Orthrosanthus laxus</i> var. <i>laxus</i>		X															
<i>Paracaleana dixonii</i>								X				X					

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>*Parentucellia latifolia</i>	X				X												
<i>Patersonia graminea</i>					X			X	X	X	X	X	X				
<i>Patersonia occidentalis</i>															X	X	
<i>*Pentameris airoides</i> subsp. <i>airoides</i>	X	X			X		X			X						X	
<i>Persoonia filiformis</i>								X	X			X					
<i>Petrophile brevifolia</i>								X	X	X		X	X	X		X	X
<i>Petrophile chrysantha</i>				X				X	X	X	X						
<i>Petrophile drummondii</i>					X										X		
<i>Petrophile macrostachya</i>									X			X		X		X	
<i>Petrophile megalostegia</i>								X		X		X		X		X	X
<i>Petrophile scabriuscula</i>									X			X		X	X	X	
<i>Petrophile seminuda</i>											X						X
<i>Petrophile shuttleworthiana</i>								X	X	X							X
<i>Pileanthus filifolius</i>									X			X	X	X	X	X	
<i>Pimelea angustifolia</i>												X		X		X	
<i>Pimelea imbricata</i> var. <i>piliger</i>											X						
<i>Pimelea leucantha</i>															X		
<i>Pimelea sulphurea</i>								X	X	X		X					
<i>Plantago debilis</i>		X															
<i>Platysace juncea</i> sens. <i>lat.</i>								X				X	X				
<i>Platysace xerophila</i>															X		
<i>Podolepis capillaris</i>								X									
<i>Podolepis lessonii</i>		X			X												
<i>Podotheca gnaphalioides</i>	X				X			X		X		X			X	X	X
<i>Polianthion wichurae</i>								X	X	X					X		
<i>Poranthera microphylla</i>								X									
<i>Pterochaeta paniculata</i>								X	X	X	X	X	X	X		X	X
<i>Pterostylis vittata</i>										X							
<i>Ptilotus declinatus</i>													X				
<i>Ptilotus manglesii</i>		X			X				X							X	X
<i>Ptilotus stirlingii</i>													X				
<i>Quoya verbascina</i>															X		

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Rhagodia preissii</i> subsp. <i>preissii</i>	X	X	X														
<i>Rhodanthe laevis</i>		X															
<i>Rhodanthe manglesii</i>		X			X												
<i>Rhodanthe polycephala</i>							X										
<i>Rytidosperma acerosum</i>					X												
<i>Rytidosperma setaceum</i>		X															
<i>Santalum acuminatum</i>		X			X					X							
<i>Scaevola canescens</i>					X			X	X	X		X	X	X		X	X
<i>Scaevola glandulifera</i>										X							
<i>Scaevola phlebopetala</i>															X		
<i>Scaevola virgata</i>				X						X							
<i>Schoenus andrewsii</i>																	X
<i>Schoenus armeria</i>								X	X	X	X				X		X
<i>Schoenus badius</i>								X				X				X	X
<i>Schoenus brevisetis</i>								X	X	X		X			X	X	X
<i>Schoenus clandestinus</i>								X	X	X	X	X	X	X		X	X
<i>Schoenus curvifolius</i>								X							X	X	
<i>Schoenus insolitus</i>									X						X	X	
<i>Schoenus minutulus</i>											X						
<i>Schoenus nanus</i>								X									
<i>Schoenus pleiostemoneus</i>																	X
? <i>Schoenus</i> sp.								X	X			X					
<i>Schoenus</i> sp. A3 Ciliate Sheaths (K.R. Newbey 9402)									X						X		
<i>Schoenus unispiculatus</i>								X	X		X					X	
<i>Scholtzia laxiflora</i>					X	X		X	X			X	X		X	X	X
<i>Senecio pinnatifolius</i> var. <i>latilobus</i>	X																
<i>Siloxerus filifolius</i>																X	X
<i>Sowerbaea laxiflora</i>					X												X
<i>Sphaerolobium pulchellum</i>										X							
<i>Stachystemon axillaris</i>															X	X	
<i>Stackhousia dielsii</i>												X	X				
<i>Stenanthemum humile</i>									X						X		

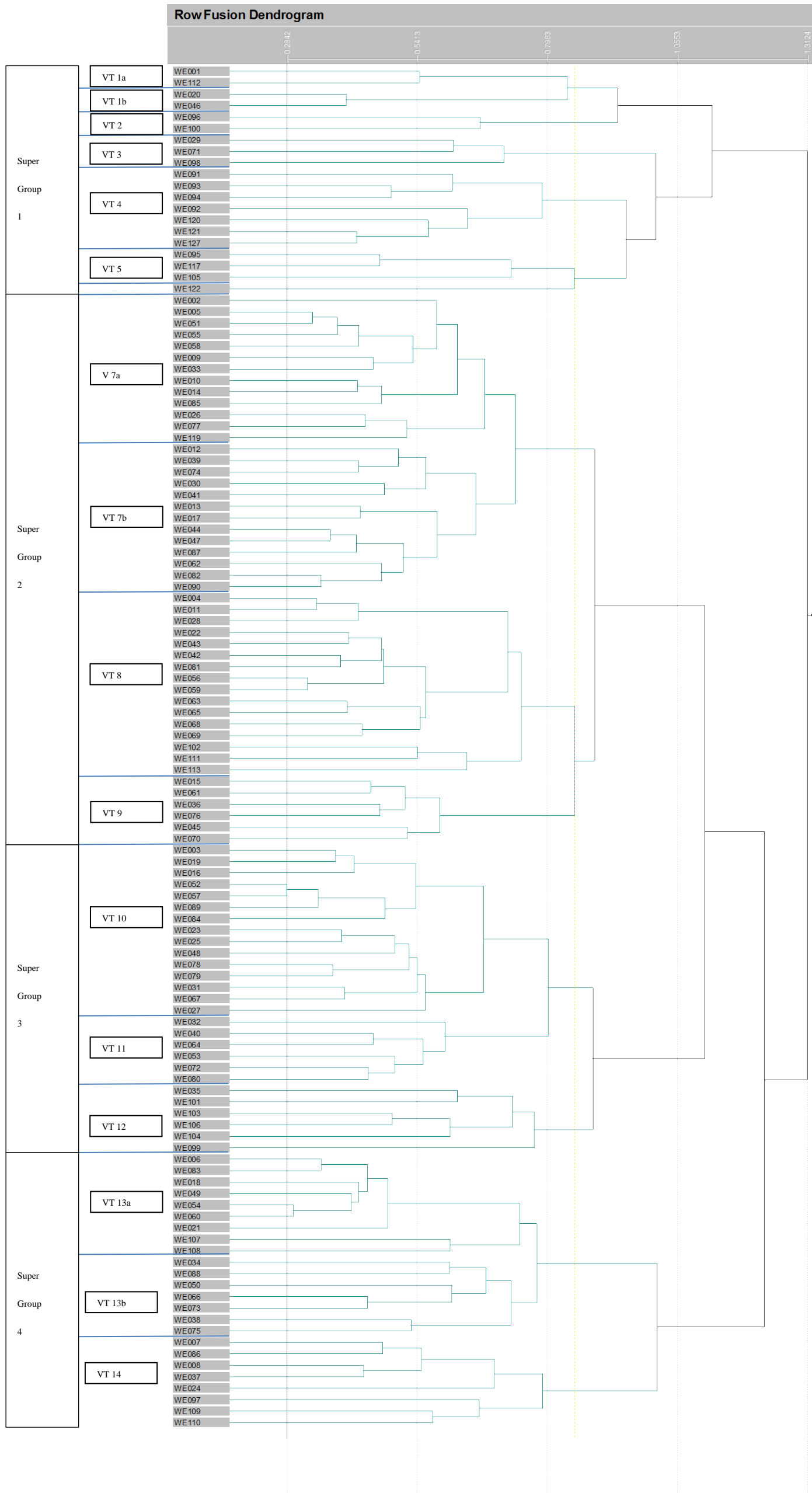


	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Stenanthemum intricatum</i>								X	X			X				X	
<i>Stenanthemum notiale</i> subsp. <i>notiale</i>												X	X	X	X	X	X
<i>Stenanthemum</i> aff. <i>notiale</i> subsp. <i>notiale</i>									X	X		X	X		X		
<i>Stenanthemum</i> ? <i>tridentatum</i>		X															
<i>Stirlingia latifolia</i>															X		
<i>Stirlingia simplex</i>																	X
<i>Stylidium adpressum</i>									X			X					
<i>Stylidium androsaceum</i>					X			X								X	X
<i>Stylidium caricifolium</i>										X	X						
<i>Stylidium crossocephalum</i>									X			X			X	X	
<i>Stylidium dichotomum</i>								X	X				X			X	X
<i>Stylidium diuroides</i> subsp. <i>paucifoliatum</i>								X	X			X					
<i>Stylidium drummondianum</i>								X	X	X	X						
<i>Stylidium emarginatum</i>								X									
<i>Stylidium flagellum</i>														X			X
<i>Stylidium maitlandianum</i>												X			X		
<i>Stylidium petiolare</i>				X				X									X
<i>Stylidium purpureum</i> ms									X						X	X	X
<i>Stylidium repens</i>									X			X			X	X	
<i>Stylidium rigidulum</i>									X			X			X		X
<i>Stylidium</i> sp. Kalbarri (A. Carr 145)								X	X			X	X	X	X		
<i>Stylidium stenosepalum</i>								X	X								
<i>Stylidium torticarpum</i>		X		X	X					X	X						
<i>Synaphea aephynsa</i>								X	X	X							
<i>Synaphea oulopha</i>										X	X						
<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>								X				X					
<i>Tetratheca confertifolia</i>										X							
<i>Tetratheca paucifolia</i>											X						
<i>Thryptomene racemulosa</i>		X			X	X		X	X		X		X			X	X
<i>Thryptomene</i> sp. Mingenew (Diels & Pritzel 332)					X												
<i>Thysanotus asper</i>												X					
<i>Thysanotus dichotomus</i>								X	X	X		X	X				

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Thysanotus manglesianus</i>	X			X	X	X		X		X				X	X		X
<i>Thysanotus patersonii</i>	X							X				X	X				X
<i>Thysanotus pyramidalis</i>							X										
<i>Thysanotus</i> sp.																	X
<i>Thysanotus</i> sp.									X	X	X						
<i>Thysanotus sparteus</i>									X	X		X	X				
<i>Thysanotus ?tenellus</i>												X					
<i>Thysanotus thyrsoideus</i>									X			X			X	X	
<i>Trachymene cyanopetala</i>		X						X									
<i>Trachymene ornata</i>					X			X									
<i>Trachymene pilosa</i>	X	X	X		X			X	X	X		X		X	X	X	X
<i>Tribonanthes australis</i>																	X
<i>Trichocline spathulata</i>				X													
<i>Tricoryne elatior</i>										X		X			X	X	
<i>Tricoryne humilis</i>								X	X	X		X	X				
* <i>Trifolium campestre</i> var. <i>campestre</i>							X										
<i>Triodia danthonioides</i>					X												
<i>Tripterococcus brunonis</i>									X								
<i>Trymalium angustifolium</i>										X							
* <i>Ursinia anthemoides</i>	X				X	X		X									X
<i>Velleia rosea</i>		X															
<i>Velleia trinervis</i>		X						X									
<i>Verticordia blepharophylla</i>															X		X
<i>Verticordia brachypoda</i>											X						
<i>Verticordia chrysantha</i>									X								
<i>Verticordia chrysanthella</i>					X			X		X	X	X					
<i>Verticordia densiflora</i> var. <i>densiflora</i>					X	X		X	X			X		X	X	X	X
<i>Verticordia endlicheriana</i> var. <i>manicula</i>											X						
<i>Verticordia grandis</i>												X	X	X	X	X	
<i>Verticordia huegelii</i>											X						
<i>Verticordia laciniata</i>								X	X			X			X	X	
<i>Verticordia monadelpha</i> var. <i>monadelpha</i>									X								

	1a	1b	2	3	4	5	6	7a	7b	8	9	10	11	12	13a	13b	14
<i>Verticordia nobilis</i>									X					X			
<i>Verticordia pennigera</i>								X	X			X				X	X
<i>Verticordia picta</i>								X									
* <i>Vulpia myuros</i>					X		X										X
* <i>Wahlenbergia capensis</i>	X														X		
<i>Wahlenbergia gracilentia</i>	X	X								X						X	X
<i>Waitzia acuminata</i> var. <i>albicans</i>					X												
<i>Waitzia acuminata</i> var. <i>acuminata</i>					X					X		X	X	X			X
<i>Waitzia suaveolens</i> var. <i>suaveolens</i>										X		X					
<i>Xanthorrhoea ?brunonis</i>									X							X	
<i>Xanthorrhoea drummondii</i>										X			X				
<i>Xanthosia huegelii</i>								X	X						X		
<i>Xylomelum angustifolium</i>												X		X		X	

Appendix L: Summary Dendrogram of Relationships Between Quadrats, 2011 – 2012 Quadrat Data



Appendix M: Summary Matrix of Taxon Presence Within Quadrats

Two-way Table																						
Quadrat	Taxon	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
1a	WEC01																					
	WEC02																					
	WEC03																					
2	WEC04																					
	WEC05																					
	WEC06																					
3	WEC07																					
	WEC08																					
	WEC09																					
4	WEC10																					
	WEC11																					
	WEC12																					
5	WEC13																					
	WEC14																					
	WEC15																					
6	WEC16																					
	WEC17																					
	WEC18																					
7a	WEC19																					
	WEC20																					
	WEC21																					
7b	WEC22																					
	WEC23																					
	WEC24																					
8	WEC25																					
	WEC26																					
	WEC27																					
9	WEC28																					
	WEC29																					
	WEC30																					
10	WEC31																					
	WEC32																					
	WEC33																					
11	WEC34																					
	WEC35																					
	WEC36																					
12	WEC37																					
	WEC38																					
	WEC39																					
13a	WEC40																					
	WEC41																					
	WEC42																					
13b	WEC43																					
	WEC44																					
	WEC45																					
14	WEC46																					
	WEC47																					
	WEC48																					

Appendix N: Significant Indicator Taxa of the 12-Group Classification of Vegetation Types

	1a	1b	2	3	4	5	7a	7b	8	9	10	11	12	13a	13b	14
<i>Anthocercis genistoides</i> *	45	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Eucalyptus accedens</i> *	35	35	9	4	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gastrolobium spinosum</i> ***	68	0	0	0	0	0	0	0	4	0	0	2	0	0	0	0
<i>Gompholobium pungens</i> ***	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Olearia rudis</i> ***	67	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acanthocarpus canaliculatus</i> ***	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Desmocladius asper</i> *	11	44	0	0	1	0	0	0	0	0	0	0	0	2	1	3
<i>Dianella revoluta</i> **	15	59	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Dodonaea divaricata</i> ***	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gastrolobium plicatum</i> ***	0	25	0	0	0	0	7	18	6	17	3	0	0	0	0	0
<i>Glischrocaryon aureum</i> *	0	23	0	10	2	0	14	0	10	16	0	0	0	0	0	0
<i>Orthrosanthus laxis</i> var. <i>laxis</i> ***	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ptilotus manglesii</i> *	0	46	0	0	4	0	0	2	0	0	0	0	0	0	4	6
<i>Rhagodia preissii</i> subsp. <i>preissii</i> **	10	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stylidium torticarpum</i> *	0	44	0	5	4	0	0	0	0	19	0	0	0	0	0	0
<i>Velleia trinervis</i> ***	0	87	0	0	0	0	2	0	0	0	0	0	0	0	0	0
<i>Acacia ericksoniae</i> ***	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
<i>Baeckea crispiflora</i> var. <i>tenuior</i> **	0	0	0	55	0	0	1	0	0	0	0	0	0	0	0	0
<i>Comesperma volubile</i> **	0	0	0	44	0	0	0	0	0	11	0	0	0	0	0	0
<i>Gastrolobium bennettsianum</i> **	0	0	0	67	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melaleuca concreta</i> *	0	0	0	40	3	0	0	0	1	28	0	0	0	0	0	1
<i>Melaleuca radula</i> *	0	0	0	28	5	7	0	0	14	3	0	1	0	0	0	2
<i>Austrostipa elegantissima</i> *	0	19	0	0	40	0	0	0	0	0	0	0	0	0	0	0
<i>Austrostipa variabilis</i> **	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0
<i>Grevillea biternata</i> *	0	0	0	0	34	0	0	0	0	12	0	0	0	0	0	0
<i>Acacia aciphylla</i> ***	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0

	1a	1b	2	3	4	5	7a	7b	8	9	10	11	12	13a	13b	14
<i>Acacia neurophylla</i> subsp. <i>neurophylla</i> **	0	0	0	0	2	87	0	0	0	0	0	0	0	0	0	0
<i>Allocasuarina campestris</i> *	0	0	0	2	8	16	5	2	11	11	1	11	2	0	0	0
<i>Allocasuarina microstachya</i> *	0	0	0	0	0	0	24	7	0	0	7	1	8	0	0	8
<i>Boronia cymosa</i> ***	0	0	0	0	0	0	30	9	20	1	3	7	0	0	0	0
<i>Daviesia oxyclada</i> *	0	0	0	0	0	0	23	3	0	0	0	0	0	0	2	2
<i>Lepidosperma</i> sp. P1 small head (M.D. Tindale 166A)*	0	0	0	0	0	0	32	4	11	2	0	0	0	0	0	0
<i>Neurachne alopecuroidea</i> **	0	3	0	1	11	3	11	8	5	11	4	5	0	1	8	8
<i>Banksia carlinoides</i> **	0	0	0	0	0	0	7	25	1	0	1	0	1	0	1	20
<i>Calothamnus sanguineus</i> ***	0	0	0	0	0	0	1	28	0	0	0	0	3	22	21	0
<i>Caustis dioica</i> *	0	0	0	0	0	0	5	23	0	0	4	0	1	10	6	4
<i>Hakea incrassata</i> ***	0	0	0	0	0	0	20	24	4	3	3	3	1	0	0	2
<i>Hakea stenocarpa</i> *	0	0	0	0	0	0	1	31	1	0	0	0	0	0	0	2
<i>Hibbertia hypericoides</i> ***	0	0	0	1	0	0	11	13	8	6	10	0	13	6	7	2
<i>Petrophile brevifolia</i> ***	0	0	0	0	0	0	9	34	1	0	2	1	1	0	3	1
<i>Schoenus brevisetis</i> ***	0	0	0	0	0	0	15	28	1	0	4	0	0	4	1	1
<i>Banksia fraseri</i> var. <i>fraseri</i> ***	0	0	0	0	1	0	24	5	29	4	1	1	0	0	0	0
<i>Hakea auriculata</i> **	0	0	0	0	0	0	11	7	30	1	2	0	0	0	0	0
<i>Petrophile shuttleworthiana</i> *	0	0	0	0	0	0	4	7	32	0	0	0	0	0	0	1
<i>Dodonaea ericoides</i> **	0	0	0	0	0	0	19	0	17	34	0	0	0	0	0	0
<i>Lepidosperma</i> sp. A2 Inland Flat (G.J. Keighery 7000)**	0	0	0	23	0	0	1	0	1	52	0	0	0	0	0	0
<i>Leucopogon</i> sp. Yandanooka (M. Hislop 2507)***	0	0	0	0	0	0	1	0	0	88	0	0	0	0	0	0
<i>Melaleuca marginata</i> *	0	0	0	33	0	0	0	0	0	33	0	0	0	0	0	0
<i>Melaleuca tinkeri</i> ***	0	0	0	0	0	0	13	0	2	61	0	0	0	0	0	0
<i>Micromyrtus rogeri</i> *	0	0	0	0	0	0	1	0	10	29	0	0	0	0	0	0
<i>Mirbelia floribunda</i> *	0	0	0	0	0	0	14	0	0	42	0	0	0	0	0	0



	1a	1b	2	3	4	5	7a	7b	8	9	10	11	12	13a	13b	14
<i>Acacia auronitens</i> *	0	0	0	0	0	0	3	0	0	0	48	0	0	0	0	0
<i>Astroloma microdonta</i> *	0	0	0	0	0	0	1	8	0	0	23	0	0	0	0	0
<i>Astroloma serratifolium</i> *	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0
<i>Banksia shuttleworthiana</i> ***	0	0	0	0	0	0	3	18	3	0	26	1	7	0	1	0
<i>Conospermum boreale</i> subsp. ? <i>ascendens</i> **	0	0	0	0	0	0	0	0	0	0	32	1	19	2	3	0
<i>Ecdeiocolea monostachya</i> ***	0	0	0	0	5	14	8	10	12	3	14	14	3	0	0	0
<i>Eremaea violacea</i> subsp. <i>violacea</i> *	0	0	0	0	0	0	0	0	0	0	40	3	0	0	2	0
<i>Isopogon tridens</i> *	0	0	0	0	0	0	0	0	0	0	47	0	0	0	0	0
<i>Melaleuca leuropoma</i> ***	0	0	0	0	2	0	0	5	0	0	22	5	2	13	11	5
<i>Mesomelaena pseudostygia</i> **	0	0	0	0	3	0	4	13	3	0	13	11	7	3	11	1
<i>Monotaxis bracteata</i> *	0	0	0	0	0	0	0	6	0	0	38	0	0	0	0	2
<i>Pileanthus filifolius</i> ***	0	0	0	0	0	0	0	4	0	0	40	10	1	2	3	0
<i>Pimelea angustifolia</i> *	0	0	0	0	0	0	0	0	0	0	23	0	12	0	2	0
<i>Stylidium adpressum</i> *	0	0	0	0	0	0	0	3	0	0	41	0	0	0	0	0
<i>Boronia coerulescens</i> subsp. <i>spinescens</i> *	0	0	0	0	0	0	0	1	5	0	3	38	0	0	0	0
<i>Dampiera spicigera</i> ***	0	0	0	0	1	0	0	0	2	0	22	42	0	0	1	0
<i>Grevillea biformis</i> subsp. <i>biformis</i> **	0	0	0	0	0	0	0	0	1	0	11	46	2	0	0	0
<i>Hakea circumalata</i> ***	0	0	0	0	0	0	3	5	3	1	11	31	3	0	0	0
<i>Lepidobolus preissianus</i> subsp. <i>preissianus</i> ***	0	0	0	0	3	0	4	4	2	2	14	19	8	0	6	1
<i>Mesomelaena stygia</i> subsp. <i>deflexa</i> *	0	0	0	0	0	0	0	0	0	0	5	47	7	0	0	0
<i>Schoenus clandestinus</i> ***	0	0	0	0	0	0	13	13	5	4	11	15	7	0	5	6
<i>Beaufortia elegans</i> ***	0	0	0	0	0	0	0	6	0	0	1	0	40	18	3	0
<i>Drosera erythrorhiza</i> *	0	0	0	0	0	0	1	1	0	0	0	0	32	0	0	2
<i>Leptospermum oligandrum</i> *	0	0	0	0	4	0	0	1	0	0	25	0	33	1	0	0
<i>Acacia stenoptera</i> *	0	0	0	0	0	0	0	1	0	0	0	0	0	30	3	0
<i>Alexgeorgea nitens</i> **	0	0	0	0	0	0	0	0	0	0	0	0	0	44	0	0
<i>Allocasuarina humilis</i> **	0	0	0	0	0	0	6	16	4	0	1	0	2	17	11	9

	1a	1b	2	3	4	5	7a	7b	8	9	10	11	12	13a	13b	14
<i>Anigozanthos humilis</i> subsp. <i>humilis</i> ***	0	0	0	0	0	0	0	1	0	0	1	0	1	47	15	1
<i>Banksia dallanneyi</i> subsp. <i>media</i> ***	0	0	0	0	0	0	0	10	0	0	1	0	1	35	25	1
<i>Banksia sessilis</i> var. <i>flabellifolia</i> *	0	0	0	0	0	0	0	0	0	0	0	0	11	30	2	0
<i>Calytrix sapphirina</i> **	0	0	0	0	0	0	0	0	0	0	0	0	7	46	5	1
<i>Conostylis canteriata</i> *	0	0	0	0	0	0	1	9	0	0	2	0	1	25	16	5
<i>Conostylis hiemalis</i> ***	0	0	0	0	0	0	0	1	0	0	0	0	0	71	0	0
<i>Desmocladius semiplanus</i> *	0	0	0	0	0	0	0	4	0	0	0	0	0	34	6	1
<i>Eremaea ectadioclada</i> *	0	0	0	0	0	0	0	2	0	0	0	0	2	49	2	0
<i>Eucalyptus todtiana</i> **	0	0	0	0	0	0	0	0	0	0	0	0	7	48	11	0
<i>Gompholobium tomentosum</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	41	22	1
<i>Hakea psilorrhyncha</i> **	0	0	0	0	0	0	0	0	0	0	0	0	0	44	0	0
<i>Hibbertia subvaginata</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	55	3	0
<i>Isotropis cuneifolia</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	37	2	2
<i>Lambertia multiflora</i> var. <i>multiflora</i> *	0	0	0	0	0	0	0	3	0	0	0	0	0	51	0	0
<i>Lasiopetalum drummondii</i> **	0	0	0	0	0	0	0	1	0	0	0	0	14	46	0	1
<i>Leucopogon</i> sp. Arrowsmith (M. Hislop 2509)***	0	0	0	0	0	0	2	15	0	0	2	0	1	39	0	5
<i>Leucopogon</i> sp. Northern ciliate (R. Davis 3393)*	0	0	0	0	0	0	0	0	0	0	0	0	0	35	6	5
<i>Lyginia imberbis</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	36	26	0
<i>Lysinema pentapetalum</i> *	0	0	0	0	0	0	0	2	0	0	0	0	3	29	0	1
<i>Patersonia occidentalis</i> **	0	0	0	0	0	0	0	0	0	0	0	0	0	44	3	0
<i>Quoya verbascina</i> ***	0	0	0	0	0	0	0	0	0	0	0	0	0	89	0	0
<i>Stachystemon axillaris</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	34	3	0
<i>Xanthosia huegelii</i> *	0	0	0	0	0	0	3	1	0	0	0	0	0	39	0	0
<i>Calytrix depressa</i> *	0	0	0	0	0	0	1	1	0	10	0	0	0	0	0	35
<i>Drosera menziesii</i> subsp. <i>menziesii</i>	0	0	0	0	0	0	2	0	0	0	7	0	0	0	2	24
<i>Harperia lateriflora</i> *	0	0	0	0	0	0	0	5	0	0	0	0	0	0	2	50

	1a	1b	2	3	4	5	7a	7b	8	9	10	11	12	13a	13b	14
<i>Jacksonia angulata</i> *	0	0	0	0	0	0	2	0	0	9	0	0	0	0	0	45
<i>Opercularia vaginata</i> ***	3	0	0	0	7	0	12	7	6	0	7	9	0	6	1	14