

**Detailed Flora & Vegetation Survey
Medcalf Vanadium Mining Project
& Proposed Haul Road
Prepared For
Audalia Resources Limited**



**October 2020
FINAL**

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Glossary

Acronym	Description
ANCA	Australian Nature Conservation Agency.
Audalia	Audalia Resources Limited.
BAM Act	<i>Biosecurity and Agriculture Management Act 2007</i> , WA Government.
BC Act	<i>Biodiversity Conservation Act 2016</i> , WA Government (replaces <i>Wildlife Conservation Act 1950</i>).
Botanica	Botanica Consulting.
BoM	Bureau of Meteorology.
DAFWA	Department of Agriculture and Food (now DPIRD), WA Government.
DBCA	Department of Biodiversity, Conservation and Attractions (formerly DPaW), WA Government.
DEC	Department of Environment and Conservation (now DBCA), WA Government.
DER	Department of Environment Regulation (now DWER), WA Government.
DMIRS	Department of Mines, Industry Regulation and Safety (formerly DMP), WA Government
DMP	Department of Mines and Petroleum (now DMIRS), WA Government.
DotEE	Department of the Environment and Energy (formerly DSEWPaC), Australian Government.
DoW	Department of Water (now DWER), WA Government.
DPaW	Department of Parks and Wildlife (now DBCA), WA Government.
DPIRD	Department of Primary Industries and Regional Development, WA Government

Acronym	Description
DSEWPaC	Department of Sustainability, Environment, Water, Population and Communities (now DotEE.), Australian Government.
DWER	Department of Water and Environmental Regulation (formerly EPA, DER and DoW), WA Government
EP Act	<i>Environmental Protection Act 1986</i> , WA Government.
EP Regulations	Environmental Protection (Clearing of Native Vegetation) Regulations 2004, WA Government.
EPA	Environmental Protection Authority (now DWER), WA Government.
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> , Australian Government.
ESA	Environmentally Sensitive Area.
Ha	Hectare (10,000 square metres).
IBRA	Interim Biogeographic Regionalisation for Australia.
IUCN	International Union for the Conservation of Nature and Natural Resources – commonly known as the World Conservation Union.
km	Kilometre (1,000 metres).
MVG	Major Vegetation Groups.
MVM Project	Medcalf Vanadium Mining Project
NVIS	National Vegetation Information System.
OEPA	Office of the Environmental Protection Authority, WA Government.
PEC	Priority Ecological Community.
SSC	Species Survival Commission, International.
Survey Area	18,770 ha survey area (MVM Project and haul road inclusive).
TEC	Threatened Ecological Community.
WA	Western Australia.
WAHERB	Western Australian Herbarium.
WAM	Western Australian Museum, WA Government.

Executive Summary

Botanica Consulting (Botanica) was commissioned by Audalia Resources Limited (Audalia) to undertake a detailed (quadrat based) flora and vegetation survey of the Medcalf Vanadium Mining (MVM) Project and associated haul road (referred to collectively as the 'survey area') and a targeted survey for conservation significant flora within the MVM Project and surrounding region. The MVM Project is located approximately 97km south-west of Norseman, Western Australia with the proposed haul road extending approximately 73 km east from the project to the Coolgardie-Esperance Highway. The detailed flora and vegetation survey of the MVM Project was conducted in autumn 2013, spring 2013, spring 2014 and autumn 2015. A detailed flora and vegetation survey of the proposed haul road was conducted in autumn 2017 and spring 2017. A total of 127 quadrats were established within the 18,770 ha survey area (MVM Project and haul road inclusive).

Targeted flora surveys for conservation significant flora of the Honman Ridge/ Bremer Range area were conducted from the 1st to the 6th of October 2014. Additional targeted surveys of the proposed MVM Project and the Bremer Range area were conducted from 8th to the 13th April 2019. Targeted searches for regional records of two Priority Flora taxa; *Eucalyptus rhomboidea* (P4) and *Stenanthemum bremerense* (P4) were conducted within the Maggie Hays/ Jilbadji and Mt Holland area from 8th to the 10th May 2019.

Fourteen floristic communities were identified within the survey area. These communities were located within five different landform types and comprised of five major vegetation groups, which were represented by a total of 58 Families, 162 Genera and 411 Taxa.

One Threatened Flora taxon as listed under the *Biodiversity Conservation Act 2016* (BC Act) was recorded within the survey area; *Marianthus aquilonaris* (T). This taxon is not currently listed as threatened under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Due to the sensitive nature of information related to Threatened Flora, details on *Marianthus aquilonaris* records are excluded from this report with assessments conducted for *Marianthus aquilonaris* summarised in a separate memorandum. Ten Priority Flora taxa as listed by the Department of Biodiversity, Conservation and Attractions (DBCA) were identified within the survey area:

1. *Acacia hystrix* subsp. *continua* (P1);
2. *Acacia mutabilis* subsp. *stipulifera* (P3);
3. *Bossiaea flexuosa* (P3);
4. *Brachyloma stenolobum* (P1);
5. *Eucalyptus pterocarpa* (P3);
6. *Eucalyptus rhomboidea* (P4);
7. *Hakea pendens* (P3);
8. *Microcybe* sp. Windy Hill (G.F. Craig 6583) (P3);
9. *Stenanthemum bremerense* (P4); and
10. *Teucrium diabolicum* (P3).

No Threatened Ecological Communities (TEC) pursuant to Commonwealth or State legislation were identified within the survey area. The survey area does not contain any world or national heritage places and does not occur within a Bush Forever site. There are no wetlands of

international importance (Ramsar Wetlands), national importance (Australian Nature Conservation Agency (ANCA) Wetlands) or conservation category wetlands within the survey area. Approximately 2236 ha of the western extremity of the survey area is located within the *Bremer Range Vegetation Complexes* Priority 1 Ecological Community (PEC) as listed by DBCA.

The survey area contains Environmentally Sensitive Areas (ESA) which occur within a 50m radius of each Threatened Flora plant (covering an area of 19.7 ha), declared by the *Environmental Protection Act 1986* (EP Act). One un-named Class A Nature Reserve (Identifier R 42943) managed by DBCA is located within the eastern extremity of the survey area (approximately 301 ha of the survey area). This Nature Reserve is also listed as a Schedule 1 Area under the Environmental Protection (Clearing of Native Vegetation) Regulations 2004 (EP Regulations)

Desktop assessments indicate the survey area has potential to include two Groundwater Dependent Ecosystems (reliant on subsurface presence of groundwater). The first potential ecosystem is described as *Medium Woodland; Salmon Gum*. The database results indicate a moderate potential for interaction of this ecosystem with groundwater. The second ecosystem is described as *Shrublands; scrub heath in the Coolgardie Region*. The database results indicate a low potential for interaction of this ecosystem with groundwater.

Based on the vegetation condition rating scale adapted from Keighery and Trudgen (EPA, 2016) (ranging from 'pristine' to 'completely degraded'), eight communities were rated as 'good' and the remaining seven communities had a vegetation condition rating of 'very good'. Nine introduced species were identified in the survey area:

1. *Asphodelus fistulosus* (Onion Weed);
2. *Bromus rubens* (Red brome);
3. *Carrichtera annua* (Ward's weed);
4. *Centaurea melitensis* (Maltese cockspur);
5. *Lysimachia arvensis* (Pimpernel);
6. *Pentameris airoides*;
7. *Rostraria pumila* (Roughtail);
8. *Sonchus oleraceus* (Common sowthistle); and
9. *Vulpia muralis* (Silver grass).

1 Introduction

1.1 Project Description

Botanica Consulting (Botanica) was commissioned by Audalia Resources Limited (Audalia) to undertake a detailed (quadrat based) flora and vegetation survey and targeted flora survey of the Medcalf Vanadium Mining (MVM) Project. The survey covered an area of 18,770 ha including the entire boundary of tenements M63/656 (mining project) and L63/75 (haul road). As L63/75 is associated with linear infrastructure (proposed haul road), a 1 km boundary surrounding L63/75 was included in the survey area in accordance with EPA guidance for linear infrastructure and item 2 flora and vegetation works of the Environmental Scoping Document. The MVM Project is located approximately 97 km south-west of Norseman, Western Australia with the proposed haul road extending approximately 73 km east from the project to the Coolgardie-Esperance Highway (Figure 1).

The inaugural detailed flora and vegetation survey of the MVM Project was conducted in spring 2013; 62 quadrats were established and re-surveyed in autumn 2013. In spring 2014, the MVM Project area was expanded with a further 30 quadrats established. These quadrats were re-surveyed in autumn 2015. A detailed flora and vegetation survey of the proposed haul road was conducted on the 19th to the 23rd March 2017, with 35 quadrats established. These quadrats were re-surveyed from the 8th to 10th September 2017. A total of 127 quadrats were established within the 18,770 ha survey area (mining project and haul road inclusive). This report presents the findings of flora surveys conducted within the MVM Project area (conducted from spring 2013 to autumn 2015) and flora surveys of the associated haul road (conducted from autumn 2017 to spring 2017).

Targeted flora surveys for conservation significant flora were conducted within the Honman Ridge/ Bremer Range area (Figure 2) from the 1st to the 6th of October 2014. Additional targeted surveys of the proposed MVM Project and the Bremer Range area (Figure 2) were conducted from 8th to the 13th April 2019. Targeted searches for regional records of two Priority Flora taxa; *Eucalyptus rhomboidea* (P4) and *Stenanthemum bremerense* (P4) were conducted within the Maggie Hays/ Jilbadji and Mt Holland area (Figure 2) from 8th to the 10th May 2019. As shown in Figure 2, prior to the 2019 targeted searches, a bushfire spread through the western region of the Honman Ridge/ Bremer Range area (in February/ March 2019), which prevented Botanica from surveying the DBCA records/ previous Botanica records within the western region.

1.2 Objectives

The flora and vegetation surveys were conducted in accordance with *Guidance for the Assessment of Environmental Factors (No. 51) Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia* (EPA, 2004) and *Technical Guide - Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment – December 2016* (EPA, 2016).

The objectives of the detailed flora and vegetation survey were to:

- gather background information on flora and vegetation in the target area by desktop assessment (literature review, database and map-based searches);

- identify significant flora, vegetation/ecological communities and assess the potential sensitivity to impact;
- conduct a field survey to verify / ground truth the desktop assessment findings through targeted and detailed survey;
- undertake floristic community mapping to a scale appropriate for the bioregion and described according to the National Vegetation Information System (NVIS) structure and floristics;
- undertake vegetation condition mapping;
- assess the project area's plant species diversity, density, composition, structure and weed cover, using NVIS classification system for vegetation description;
- assess Matters of National Environmental Significance (MNES) and indicate whether potential impacts on MNES as protected under the EPBC Act are likely to require referral of the project to the Commonwealth DotEE; and
- determine the State matters of environmental significance relevant to the assessment.

The objectives of the targeted flora survey were to:

- Gather background information on flora of conservation significance in the local area (literature review, database and map-based searches);
- Based on results of the desktop assessment, identify vegetation types within the survey area that have the potential to contain flora of conservation significance;
- Conduct a field survey to identify flora of conservation significance within the survey area and the Maggie Hays/ Jilbadji and Mt Holland area (*Eucalyptus rhomboidea* (P4) and *Stenanthemum bremerense* (P4) only); and
- Provide GPS records and spatial map showing the distribution of flora of conservation significance within/ in relation to the survey area.

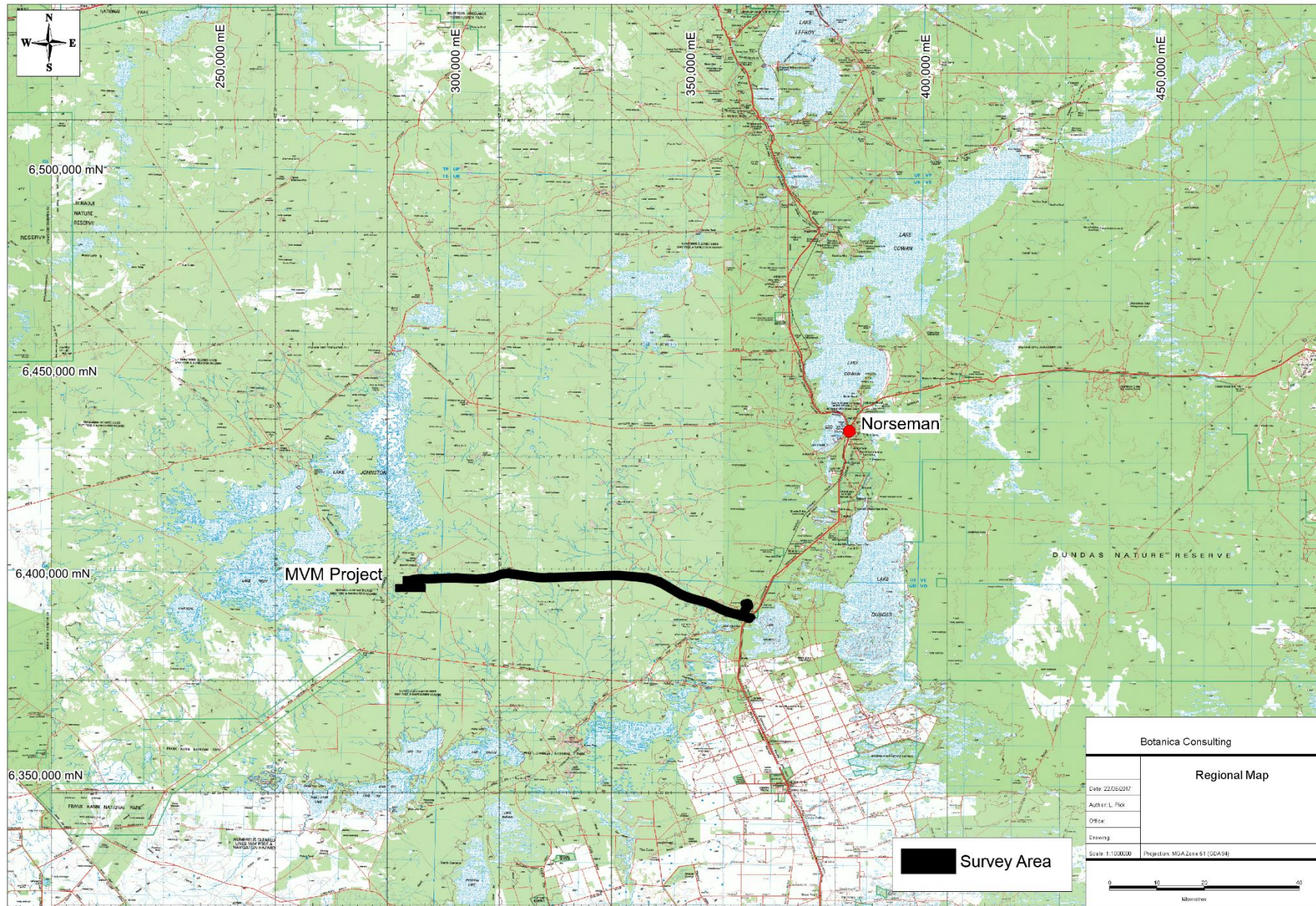


Figure 1: Regional map of the detailed survey area

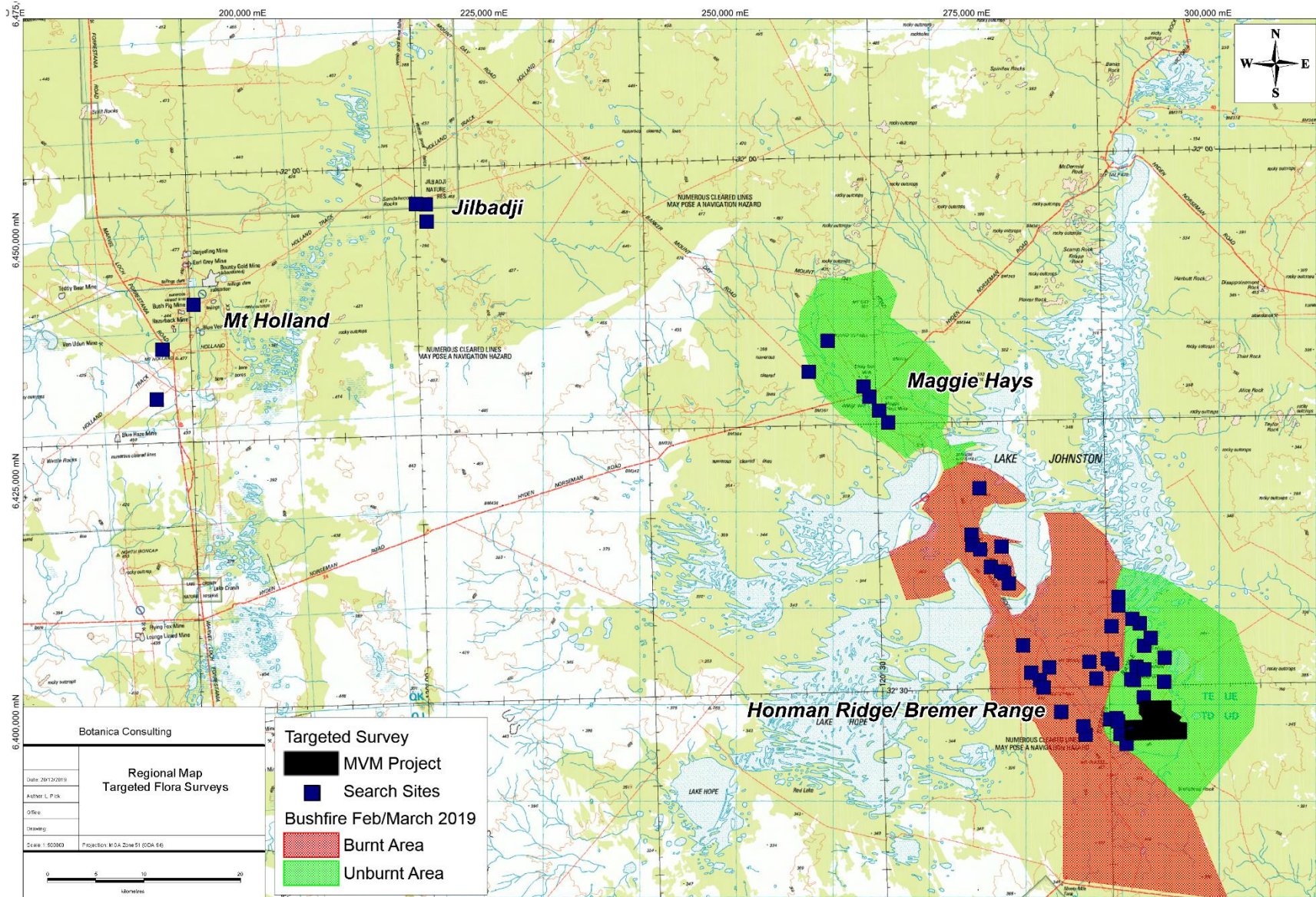


Figure 2: Regional map of the targeted survey area

2 Regional Biophysical Environment

2.1 Regional Environment

The survey area lies within the Coolgardie Botanical District of the South-West Province of WA. The Coolgardie Botanical District consists of predominantly mulga low woodland on plains and reduces to scrub on hills (Beard, 1990).

Based on the Interim Biogeographic Regionalisation of Australia (IBRA), Version 7 (DotEE, 2012), the survey area is located within the Coolgardie Bioregion of WA. The Coolgardie Bioregion is further divided into three subregions; Mardabilla, Southern Cross and Eastern Goldfield subregion with the survey area located within the Southern Cross (COO02) and Eastern Goldfield (COO03) subregion. The survey area is located approximately 5km north of the Mallee Bioregion, which is divided into two subregions; Eastern Mallee (MAL01) and Western Mallee (MAL02) as shown in Figure 3.

The Coolgardie Bioregion is within the Yilgarn Craton. The climate is arid to semi-arid warm Mediterranean with 250-300mm of mainly winter rainfall. It comprises diverse woodlands, rich in endemic eucalypts, which occur on low greenstone hills, alluvial soils on the valley floors, around the saline playas of the region's occluded drainage system and on broad plains of calcareous earths. Granite basement outcrops occur at mid-level in the landscape, supporting swards of 'granite grass', Acacia shrublands and York Gum. The playa lakes support dwarf shrublands of samphire. Sand lunettes are associated with playas along the broad valley floors, and sand sheets surround the granite outcrops. Upper levels in the landscape are the eroded remnants of a Tertiary lateritic duricrust, with yellow (in the Southern Cross subregion) or red (in the Eastern Goldfield subregion) sandplains, gravel plains and laterite breakaways. These support scrubs and mallees. In the west, these scrubs are rich in endemic Proteaceae; in the east, they are rich in endemic Acacias (McKenzie, May and McKenna, 2002).

The Mallee Bioregion occurs within the south-eastern part of Yilgarn Craton and is gently undulating, with partially occluded drainage. The climate is Mediterranean to semi-arid, with winter rainfall of between 250 and 500mm. This region includes mallee communities, samphires around small salt lakes and *Eucalyptus* woodlands occur mainly on fine-textured soils, with scrub-heath on sands and laterite (McKenzie *et. al.*, 2002).

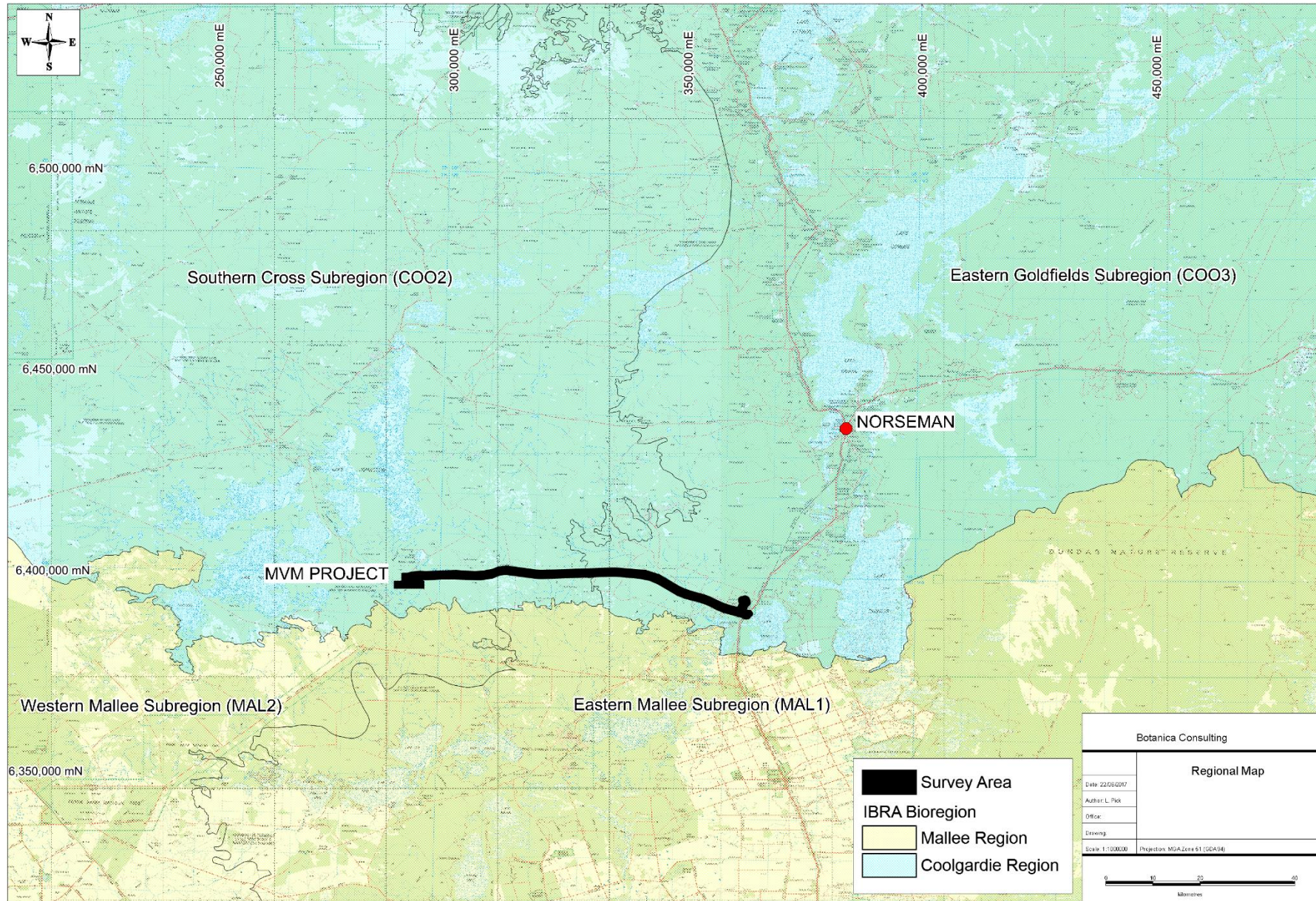


Figure 3: Map of Interim Biogeographic Regionalisation of Australia (IBRA)

2.2 Great Western Woodlands

The survey area lies within the Great Western Woodlands (Figure 4). The Great Western Woodlands is considered by The Wilderness Society to be of global biological and conservation importance as one of the largest and healthiest temperate woodlands on Earth, containing many endemic species. The region covers almost 16 million ha, 160,000 square km, from the southern edge of the Western Australian Wheatbelt to the pastoral lands of the Mulga country in the north, the inland deserts to the northeast, and the treeless Nullarbor Plain to the east.

The area provides an eastward connection between southwest forests and inland deserts (Gondwana Link) as well as linking the north-west passage to Shark Bay. The majority of the Great Western Woodlands is unallocated crown land (61.1%) with other interests including pastoral leases (20.4%), conservation reserves (15.4%) unallocated crown land ex pastoral managed by the DBCA (2%) and private land (approximately 1%) (Watson *et. al.*, 2008).

No specific management strategy applies to the Great Western Woodlands, rather an approach to conservation which occurs across all land tenures and when different stakeholders work together with biodiversity in mind. The central component of this approach is to identify and conserve key large-scale, long term ecological processes that drive connectivity between ecosystems and species. The Great Western Woodlands currently includes towns, highways, roads, railways, private property, Crown Reserves, agricultural activities and mining tenements.

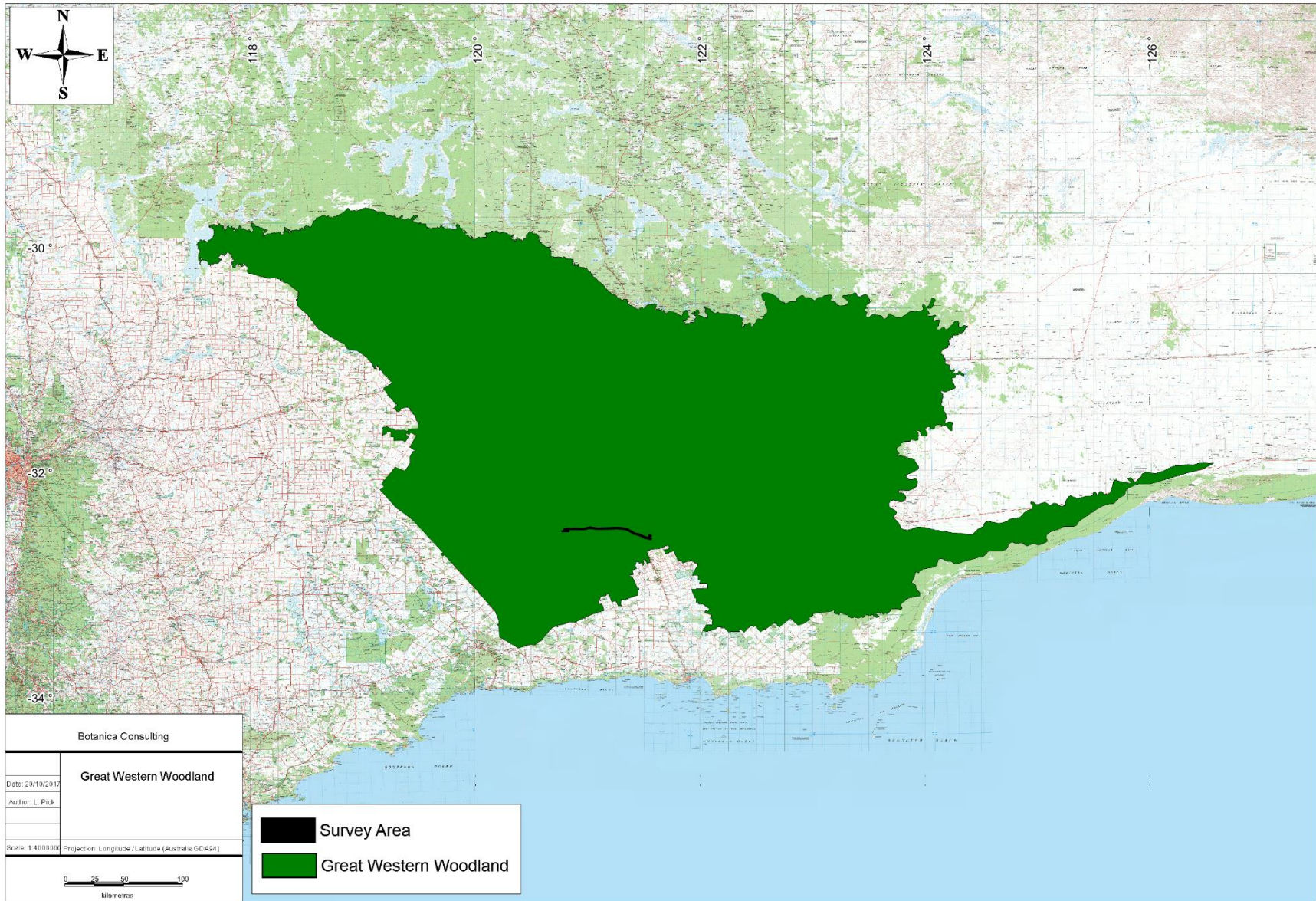


Figure 4: Location of the survey area within the Great Western Woodlands

2.3 Soils and Landscape Systems

The Southern Cross subregion (COO02) lies on the Yilgarn Craton's 'Southern Cross Terrains'. The relief is subdued and comprises of gently undulating uplands dissected by broad valleys with bands of low greenstone hills. The underlying geology is of granite strata interrupted by parallel intrusions of Archaean Greenstone. Calcareous earths are the dominant soil community and cover much of the plains and greenstone areas. A series of large playa lakes in the western half are the remnants of an ancient major drainage line (Cowan, 2001). Beard (1990) describes the topography of the region as gently undulating with occasional range of low hills and sandplains in the western area and some large playa lakes. The dominant soil type is calcareous earth.

The Eastern Goldfield subregion (COO03) lies on the Yilgarn Craton's 'Eastern Goldfields Terrains'. The relief is subdued and comprises of gently undulating plains interrupted in the west with low hills and ridges of Archaean greenstones and in the east by a horst of Proterozoic basic granulite. The underlying geology is of gneisses and granites eroded into a flat plane covered with tertiary soils and with scattered exposures of bedrock. Calcareous earths are the dominant soil group and cover much of the plains and greenstone areas. A series of large playa lakes in the western half are the remnants of an ancient major drainage line (Cowan, 2001).

Based on geographic information provided by the Department of Primary Industries and Regional Development (DPIRD), the survey area is located within the Salmon Gums Mallee Zone (246) of the Stirling Province (24) and the Norseman Zone (266) of the Kalgoorlie Province (26).

The Salmon Gums Mallee Zone is characterized by flat to undulating plains (with some salt lakes) on deeply weathered mantle and alluvium over Bremer Basin sediments on granite and gneiss of the Yilgarn Craton and Albany-Fraser Orogen. Soils include calcareous loamy earths and alkaline grey shallow sandy duplexes with salt lake soils and some alkaline grey shallow loamy duplexes and pale deep sands. Vegetation includes merrit-coral gum-Salmon gum-red mallee woodlands with mallee scrub and some mallee heath. This zone is located in the South Coast district between Pyramid Lake, Scaddan, Norseman and Mt Ragged (Tille, 2006).

The Norseman Zone is characterized by undulating plains and uplands (with some sandplains and salt lakes) on granitic rocks of the Yilgarn Craton. Soils include calcareous loamy earths, yellow sandy and loamy earths, red loamy earths, red deep sands and salt lake soils. Vegetation includes Salmon gum-redwood-merrit-red mallee-gimlet woodland with Acacia-Casuarina thickets (and some mulga shrublands and spinifex grasslands). This zone is located in the southern Goldfields between Koolyanobbing, Menzies, Zanthus (Trans-Australian Railway), Norseman and Lake Hope (Tille, 2006).

These zones are further divided into soil landscape systems, with the soil landscape systems of the survey area shown in Table 1 and Figure 5 (ASRIS, 2014).

Table 1: Soil Landscape Systems within the survey area

Zone	Landscape System/ Mapping Unit	Description
Salmon Gums Mallee Zone (246)	Halbert System	Level to gently undulating plain with numerous salt lakes within a paleo valley on Tertiary marine sediments (Plantagenet and Werrilup formations). Soils are alkaline grey shallow sandy duplex soils and salt lake soils.
	Johnston System	Gently undulating inland plain with occasional rises on Archaean granite deeply weathered
	JY1	Undulating land with small valleys and flats
Norseman Zone (266)	DD13	Gently undulating plains with some gilgai areas, occasionally broken by stony ridges and hills
	Nc2	Gently undulating plains with some gilgai areas, and irregularly broken by small remnants of sand plain, unit AC1, and granitic bosses and tors
	SV2	Saline valleys with some dunes including barchan forms-salt lake channels, mostly devoid of true soils, and their fringing areas
	Ya28	Sandy plains with some clay pans and small salt lakes, dunes, and lunettes

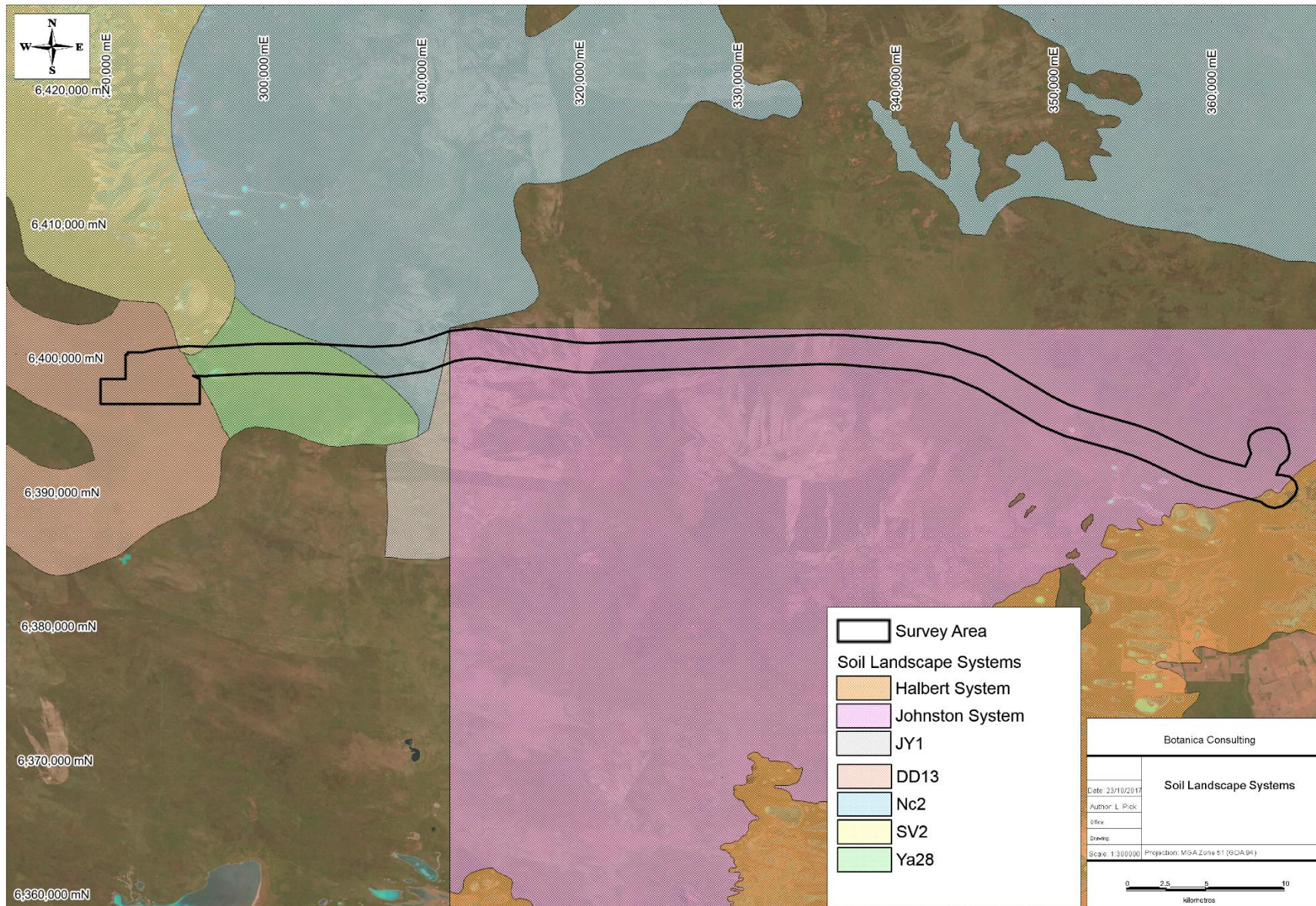


Figure 5: Map of Soil Landscape Systems within the survey area

2.4 Remnant Vegetation

The Pre-European Vegetation extent GIS file (DPIRD, 2018) indicates that the survey area is located within Pre-European Beard vegetation associations of the Binneringe, Bremer Range, Cave Hill and Dundas systems (Figure 6). The extent of these vegetation associations as specified in the *2018 Statewide Vegetation Statistics* (DBCA, 2018) is provided in Table 2.

Areas retaining less than 30% of their pre-European vegetation extent generally experience exponentially accelerated species loss, while areas with less than 10% are considered “endangered” (EPA, 2000). All of the vegetation types present in the areas intersected by the survey area are estimated to remain at >97% their estimated pre-European extent.

Table 2: Pre-European Vegetation Associations within the survey area

IBRA Subregion	Vegetation association	Pre-European Extent (Ha)	Current Extent (Ha)	Pre-European extent remaining (%)	% of Current extent within DBCA managed lands	Vegetation Description (Beard, 1990)
Southern Cross Subregion (COO2)	Bremer Range 491***	67,120.09	67,021.01	99.85	0	Medium woodland; morrel & Dundas blackbutt (<i>E. dundasii</i>)
	Cave Hill 125*	46,346.61	46,345.88	100.00	0.00	Bare areas; salt lakes
	Cave Hill 128*	35,277.85	35,265.94	99.97	0.50	Bare areas; rock outcrops
	Cave Hill 522***	160,658.84	160,643.58	99.99	0.18	Medium woodland; redwood (<i>Eucalyptus transcontinentalis</i>) & merrit (<i>E. flocktoniae</i>)
	Cave Hill 936**	157,638.63	157,638.63	100.00	0	Medium woodland; salmon gum
	Cave Hill 1148*	21,463.89	21,463.89	100.00	0.00	Shrublands; scrub-heath in the Coolgardie Region
	Cave Hill 1413*	81,471.54	81,471.54	100.00	0.10	Shrublands; Acacia, Casuarina & Melaleuca thicket
Eastern Goldfields (COO3)	Binneringe 522***	166,611.55	166,394.75	99.87	0.34	Medium woodland; redwood (<i>Eucalyptus transcontinentalis</i>) & merrit (<i>E. flocktoniae</i>)
	Cave Hill 522***	14,855.84	14,855.84	100.00	0	Medium woodland; redwood (<i>Eucalyptus transcontinentalis</i>) & merrit (<i>E. flocktoniae</i>)
	Cave Hill 1413*	6,463.46	6,463.46	100.00	0	Shrublands; Acacia, Casuarina & Melaleuca thicket
	Dundas 125*	56,750.21	56,750.21	100.00	16.19	Bare areas; salt lakes
	Dundas 128*	3,516.23	3,515.92	99.99	0	Bare areas; rock outcrops
	Dundas 486	22,349.06	22,349.06	100.00	0	Mosaic: Medium woodland; salmon gum & red mallee /

IBRA Subregion	Vegetation association	Pre-European Extent (Ha)	Current Extent (Ha)	Pre-European extent remaining (%)	% of Current extent within DBCA managed lands	Vegetation Description (Beard, 1990)
						Shrublands; mallee scrub <i>Eucalyptus eremophila</i>
	Dundas 551*	844.42	844.42	100.00	0	Shrublands; <i>Allocasuarina campestris</i> thicket
	Dundas 3106	52,659.62	51,601.68	97.99	7.81	Medium woodland; salmon gum & Dundas blackbutt

Reservation Priorities for listing under the International Union for Conservation of Nature (IUCN) Protected Area Categories (as specified in Cowan *et. al.* 2001; Cowan, 2001):

*Low Reservation Priority

**Medium Reservation Priority

***High Reservation Priority

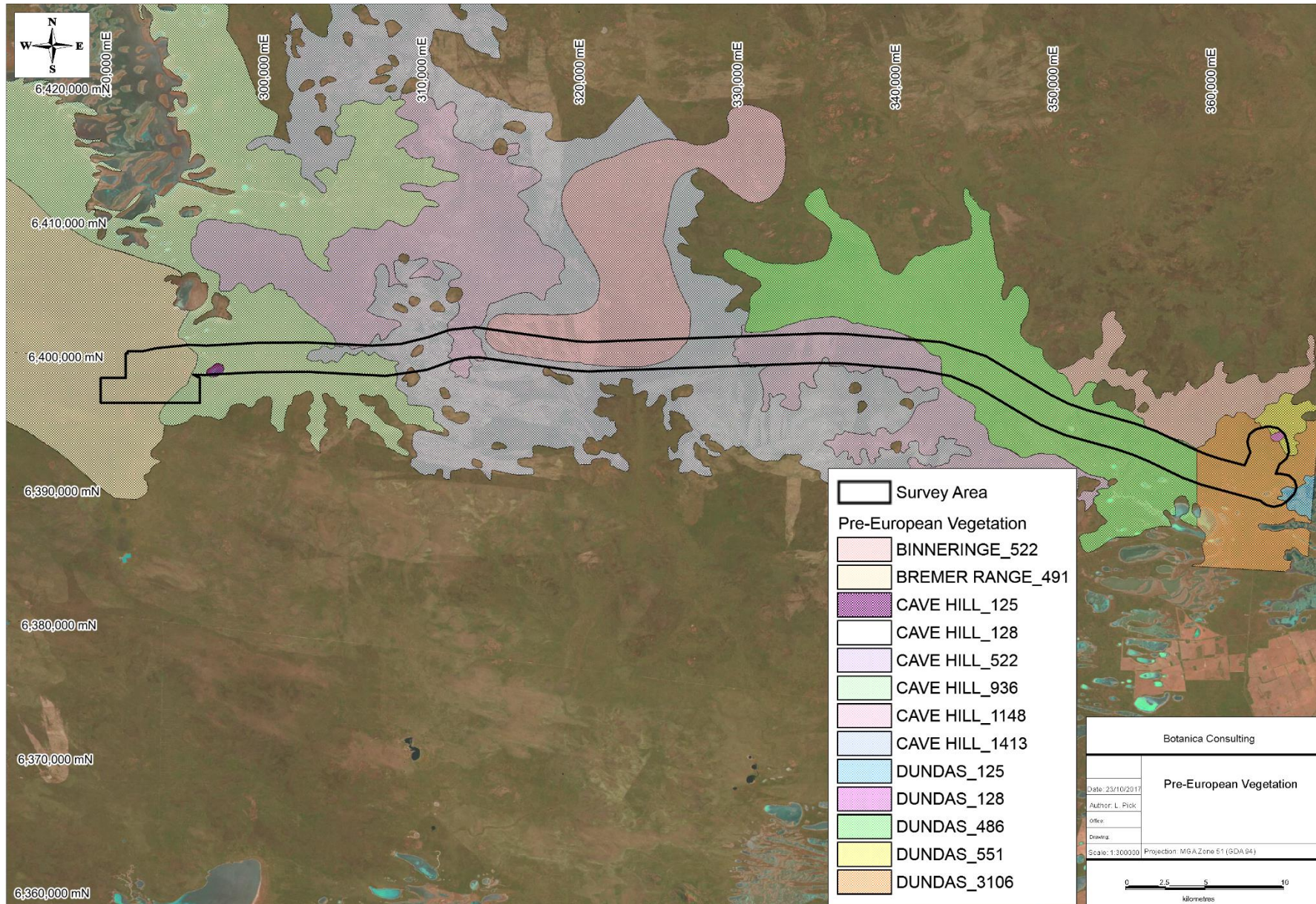


Figure 6: Pre-European Vegetation Associations within the survey area

2.5 Climate

The climate of the Coolgardie Bioregion is characterised as arid to semi-arid warm Mediterranean with 250-300mm of mainly winter rainfall (McKenzie *et. al.*, 2002). Mean climate data for the Norseman aero weather station (#12009) obtained from the Bureau of Meteorology (BoM) is provided in Figure 7 (BoM, 2020a). Monthly rainfall across the entire survey period (2014 to 2019) is shown in Figure 8.

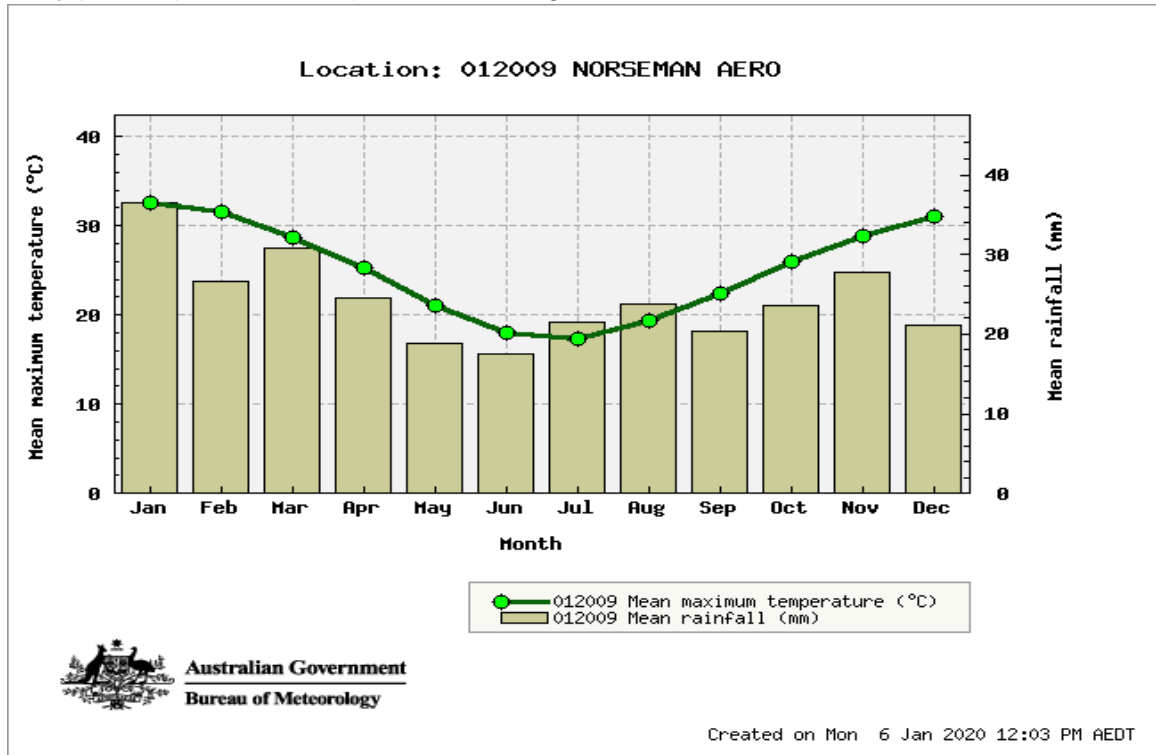


Figure 7: Mean monthly rainfall and maximum temperature (1999 to 2019) for the Norseman Aero weather station (#12009) (BoM, 2020a)

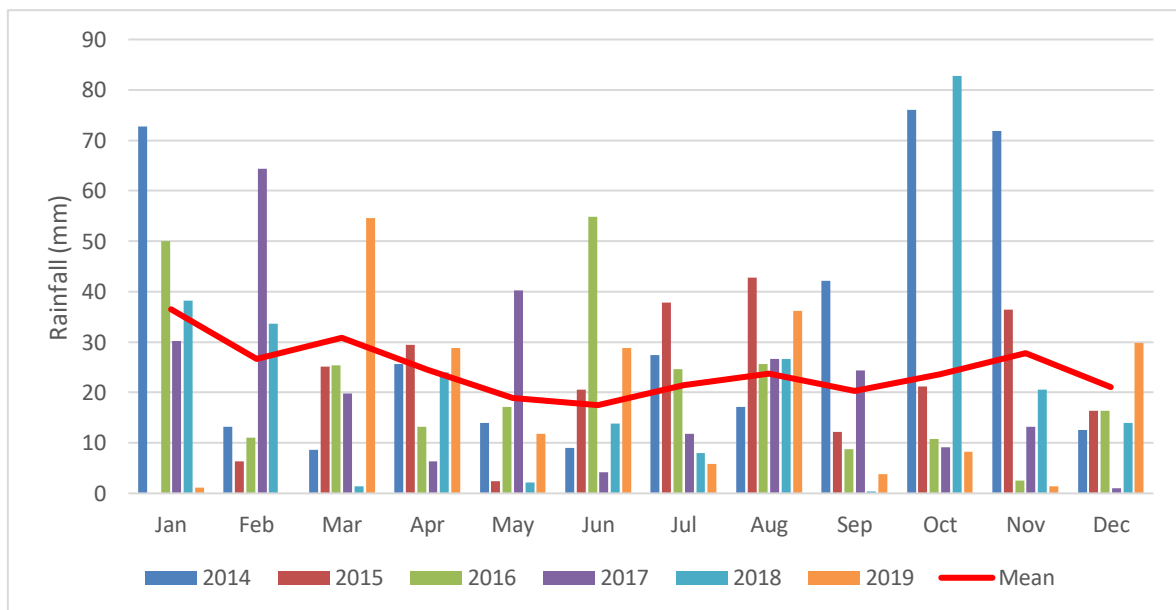


Figure 8: Monthly rainfall and mean monthly rainfall (January 2014 to December 2019) for the Norseman Aero weather station (#12009) (BoM, 2020a)

2.6 Hydrology and Hydrogeology

According to the Geoscience Australia database (2001 & 2015) there are multiple non-perennial/ intermittent drainage lines within the survey area. No inland waters are recorded on the database within the survey area (Figure 9).

The survey area intercepts two paleochannels; Lake Lefroy and Lake Cowan. The Lefroy Palaeochannel covers an area of approximately 881,400 ha and is located in the western end of the survey area. The Cowan Paleochannel covers an area of approximately 765,300 ha and is located within the eastern end of the survey area.

The Lefroy and Cowan Paleochannels were excavated into the Archaean Yilgarn Craton during the Jurassic period and historically drained from the southwest to the northeast (Clarke 1994). Groundwater flows eastwards in the direction of the original drainage. The groundwater outflow is ultimately towards the Eucla Basin, which is approximately 150 km to the east of the area. The Lefroy and Cowan Paleochannels contain marine sediments derived from multiple Eocene eustatic transgressions, in addition to fluvio-lacustrine sediments (Magee, 2009).

According to the Department of Water and Environmental Regulation (DWER) groundwater salinity database (DWER, 2018), groundwater salinities in the Project area ranges from 14,000 mg/L to 35,000 mg/L with the Lake Lefroy and Lake Cowan Paleochannels recording a groundwater salinity >35,000 mg/L. Groundwater in the region is a local flow system in Precambrian Rocks. The survey area is located within the Yilgarn-Goldfields Groundwater Province.

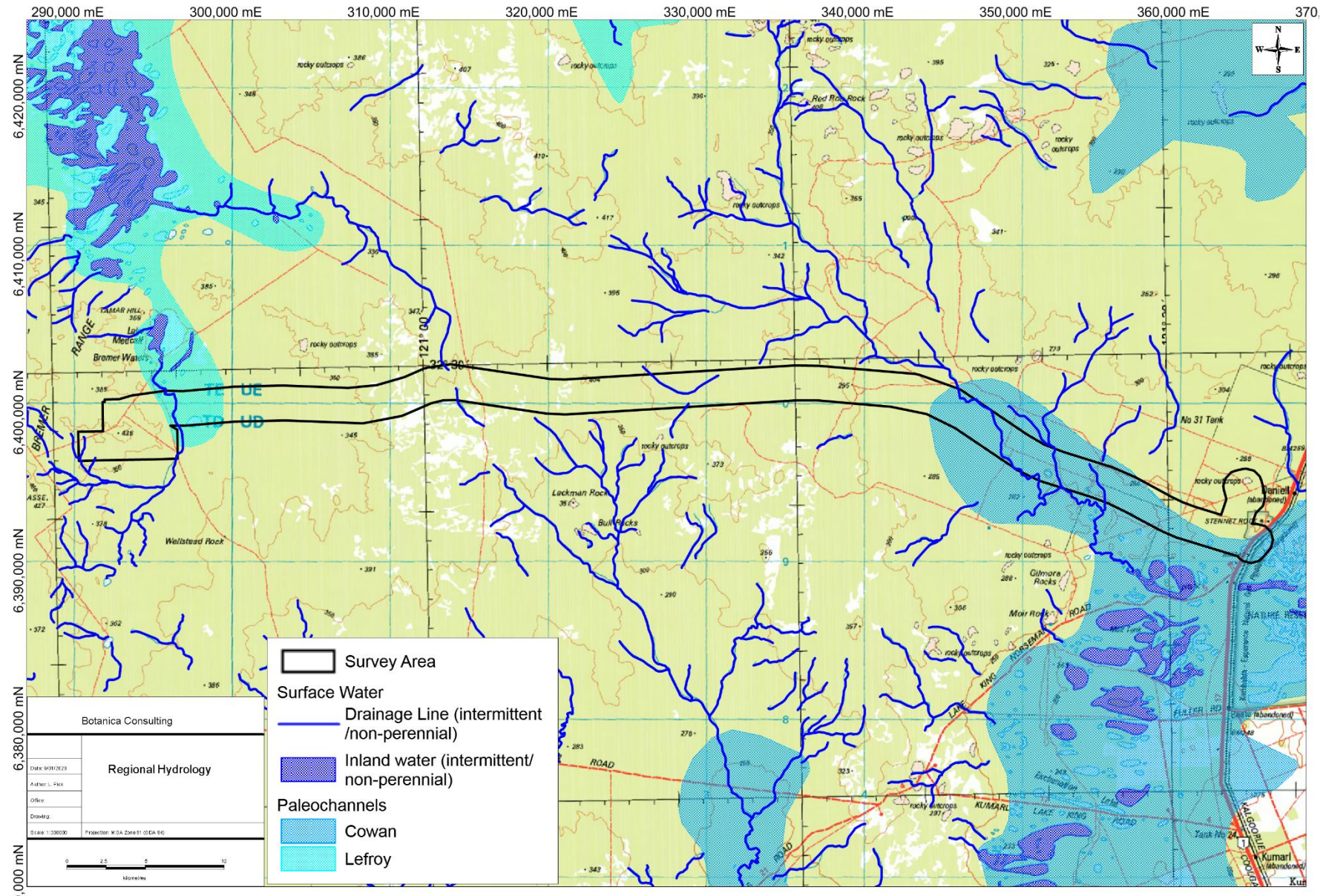


Figure 9: Hydrology and hydrogeology of the survey area (data obtained from Geoscience Australia, 2001 & 2015)

2.7 Land Use

The dominant land uses of the Southern Cross subregion are; native pastures (17%), Conservation Reserves (11.53%), UCL & Crown Reserves (66.74%) and Cultivation – Dry Land agriculture (2.27%) (Cowan, 2001). The dominant land uses of the Eastern Goldfields subregion are UCL and Crown reserves, Grazing-Native pastures-leasehold (37.8%) freehold (7.15%), conservation, and Mining leases (Cowan, 2001).

3 Survey Methodology

3.1 Desktop Assessment

Prior to the field assessment a literature review was undertaken of previous flora and vegetation assessments conducted within the local region. Documents reviewed included:

- Armstrong, (2012), Vegetation Survey and Rare Flora search on the Vesuvius Prospect Medcalf Project Unpublished report prepared for Audalia Resources Limited. Paul Armstrong and Associates.
- Botanica (2013), *Flora of Conservation Significance search of the Medcalf Exploration Project, May 2013*. Botanica Consulting, June 2013
- Botanica (2015), *Level 2 Flora & Vegetation Survey for the Medcalf Vanadium Mining Project Spring 2013 to Autumn 2015*. Botanica Consulting, June 2015
- Brearley, D.R, Dunlop, N.J and Osborne, J.M, (1998), *Biological Survey and Environmental Assessment of the Emily Ann Project Area*. School of Environmental Biology Curtin University of Technology
- Gibson, N. & Lyons, M.N (1998), *Flora and Vegetation of the Eastern Goldfields Ranges: Part 2. Bremer Range*. Journal of the Royal Society of Western Australia, 81:107-117.
- How, R.A, Newbey, K.R, Dell, J., Muir, B.G & Hnatiuk, R.J, (1988), *The Biological survey of the Eastern Goldfields of Western Australia: Part 4. Lake Johnston-Hyden Study Area*. Western Australian Museum Supplement No. 30.

Searches of the following databases were undertaken to aid in the compilation of a list of flora taxa within the survey area and assess the conservation significance of flora/ vegetation within the survey area:

- DBCA Priority/ Threatened Flora Database Search (DEC, 2013a; DPaW, 2017a)
- DBCA Priority/ Threatened Ecological Communities Database Search (DEC, 2013b; DPaW, 2017b)
- DBCA NatureMap Database (DPaW, 2017c);
- DotEE Protected Matters search tool (DotEE, 2017a).

The Naturemap and Protected Matters searches were conducted for an area encompassing a 40 km radius of the following centre coordinates; 32.5284S 120.7991E and 32.5170S 121.1940E.

It should be noted that these lists are based on observations from a broader area than the survey area (40 km radius) and therefore may include taxa not present. The databases also often include very old records that may be incorrect or in some cases the taxa in question have become locally or regionally extinct. Information from these sources should therefore be taken as indicative only. Local knowledge and information also needs to be taken into consideration when determining what actual species may be present within the specific area being investigated.

Prior to the field survey, a combined search of the DBCA Flora of Conservation Significance databases (DEC, 2013a; DPaW, 2017a) and DBCA Priority/ Threatened Ecological Communities database was undertaken within a 60 km radius of the survey area. Significant flora species identified through the database search were examined on the Western Australian Herbarium's (WAHERB) web page prior to the survey, to familiarise staff with their appearance. Locations of Threatened Flora and Priority Flora were overlaid on aerial photography of the area. Vegetation descriptions and available images of the Threatened/ Priority Flora were also obtained from Florabase.

The conservation significance of flora and vegetation was assessed using data from the following sources:

- EPBC Act. Administered by the Australian Government (DotEE);
- BC Act. Administered by the WA Government (DBCA);
- Red List produced by the Species Survival Commission (SSC) of the World Conservation Union (also known as the IUCN Red List – the acronym derived from its former name of the International Union for Conservation of Nature and Natural Resources). The Red List has no legislative power in Australia but is used as a framework for State and Commonwealth categories and criteria; and
- DBCA Priority Flora and Communities list. A non-legislative list maintained by DBCA for management purposes.

Descriptions of conservation significant species and communities are provided in Appendix 1.

3.1.1 Groundwater Dependent Ecosystems

A search of the BoM *Atlas of Groundwater Dependent Ecosystems* database (BoM, 2017b) was conducted to assess the potential for Groundwater Dependent Ecosystems (GDE) to occur within the survey area. A GDE refers to ecosystems that rely on groundwater for some or all of their water requirements (Geoscience Australia, 2017). According to the database, there are two potential GDE classes:

1. **Aquatic** ecosystems that rely on the surface expression of groundwater—this includes surface water ecosystems which may have a groundwater component, such as rivers, wetlands and springs.

2. **Terrestrial** ecosystems that rely on the subsurface presence of groundwater—this includes all vegetation ecosystems

A low potential for groundwater interaction means that *ecosystems 'are relatively unlikely to be interacting with groundwater. This includes ecosystems that are not interacting with groundwater'* (Australian Government, 2012). High potential for groundwater interaction means that *'there is a strong possibility that ecosystems are interacting with groundwater'* (Australian Government, 2012).

GDE Potential categories specified in the database are based on the physical landscape and ecosystem characteristics as specified by the following rules (Australian Government, 2012):

Rule 1: Vegetation that demonstrates an evapotranspiration that is higher than rainfall is more likely to be using groundwater.

Rule 2: Vegetation that intersects with a spring is likely to be using groundwater.

Rule 3: Vegetation is more likely to be using groundwater in areas where the watertable is shallow.

Rule 4: Vegetation growing in areas where water stored in the unsaturated zone is limited, is more likely to be using groundwater.

Rule 5: Certain vegetation communities are more likely to access groundwater than others.

The GDE potential assessment does not convey the confidence of the prediction, or the reliability of the GDE potential result. This is conveyed using the 'Lines of Evidence' attribute which indicates the amount of evidence (i.e. number of rules listed above that could be applied) used in determining the GDE potential for each ecosystem. Details on the 'Lines of Evidence' are not available on the database.

Results of the GDE assessment are provided in Section 4.3.

3.2 Field Assessment

Targeted Flora Surveys

Local Surveys Honman Ridge/ Bremer Range

Targeted flora surveys for conservation significant flora of the Honman Ridge/ Bremer Range area were conducted from the 1st to the 6th of October 2014 by six Botanica staff members. No other significant flora was identified within the survey area during previous surveys therefore conservation significant flora were targeted. The survey was conducted during optimal flowering period for majority of flora within the local region, in particular during optimal flowering period for the Threatened Flora taxon, *Marianthus aquilonaris* which was the main focus of the targeted survey.

Additional targeted surveys of the proposed MVM Project and the Bremer Range area were conducted from 8th to the 13th April 2019 by four Botanica staff members. The survey was conducted following above average rainfall received in March in order to identify cryptic/ annual species and during early budding period for *Eucalyptus rhomboidea* (P4). Targeted searches for regional records of two Priority Flora taxa; *Eucalyptus rhomboidea* (P4) and *Stenanthemum bremerense* (P4) were conducted within the Maggie Hays/ Jilbadji and Mt Holland area from 8th to the 10th May 2019 by two Botanica staff members. Survey timing was planned during flowering period for *Stenanthemum bremerense* (P4) and budding period for *Eucalyptus rhomboidea* (P4).

Botanica visited known regional records (obtained from DBCA Flora database search, 2018) of both species within the Jilbadji, Mt Holland and Maggie Hays area to confirm their location/ population size Potential habitats (based on desktop assessment of geology/ topography and vegetation known to support both species) were also visited.

All records of flora of conservation significance/ population boundaries were recorded using handheld GPS (GDA94). The following data was recorded:

- Number of plants of each significant species
- Population size and boundary of population for widespread/ high density species and records
- Note if flowering, seeding, juvenile or mature

Those vegetation types identified during the previous flora/ vegetation surveys as potentially containing flora of conservation significance were targeted. The target vegetation type/ habitat was systematically searched for plant of conservation significance with the area traversed on foot along parallel traverses (between 10 to 50m apart depending on density of vegetation). As shown in Figure 10, traverses were conducted at smaller intervals within hillslope vegetation than clay-loam plain vegetation due to the increased density of vegetation and increased presence of conservation significant flora.

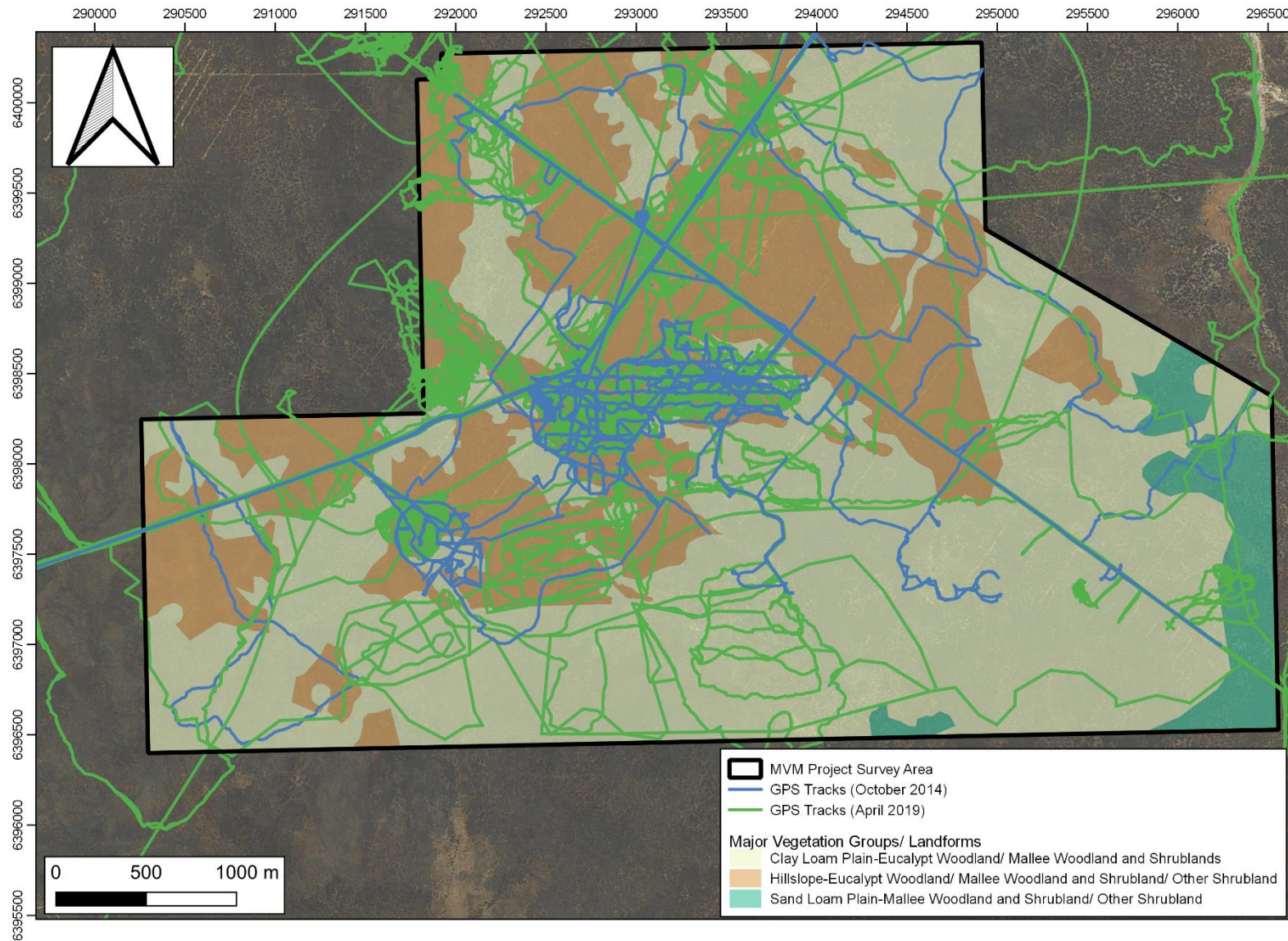


Figure 10: GPS Tracks of Targeted Surveys in relation to major vegetation groups/ landforms

Detailed Flora and Vegetation Survey

The inaugural detailed flora and vegetation survey of the MVM Project was conducted in spring 2013; 62 quadrats were established and re-surveyed in autumn 2013. In spring 2014, the MVM Project area was expanded with a further 30 quadrats established. These quadrats were re-surveyed in autumn 2015. A detailed flora and vegetation survey of the proposed haul road was conducted on the 19th to the 23rd March 2017, with 35 quadrats established. These quadrats were re-surveyed from the 8th to 10th September 2017. A total of 127 quadrats were established within the 18,770 ha survey area (MVM Project and haul road inclusive).

Prior to the commencement of field work, aerial photography was inspected and obvious differences in the vegetation assemblages were identified. The different vegetation communities identified were then inspected during the field survey to assess their validity. A handheld GPS unit was used to record the coordinates of the boundaries between existing vegetation communities. At each sample point, the following information was recorded:

- GPS location;
- Photograph of vegetation;
- Dominant taxa for each stratum;
- All vascular taxa (including annual taxa);
- Landform classification;
- Vegetation condition rating;
- Collection and documentation of unknown plant specimens; and
- GPS location, photograph and collection of flora of conservation significance if encountered.

Unknown specimens collected during the survey were identified with the aid of samples housed at the Botanica Herbarium and WAHERB. Floristic communities were classified in accordance with the NVIS (Level V) Floristic Community Type classification. The survey area was traversed by three people via 4WD, all-terrain vehicle and on foot (Figure 11).

3.2.1 Sampling Quadrats

One hundred and twenty-seven 20m x 20m quadrats were established within the survey area (Figure 11). In accordance with EPA (2016) guidance, the objective was to have at least three quadrats per vegetation type to capture the floristic variations within the survey area. Where a community was insufficiently large to accommodate three quadrats, the maximum number of quadrats that would fit within that specific community was established. The quadrats were established by inserting metal pickets in each corner, and measuring the length of the resultant boundaries to verify the quadrats were 20m x 20m (square quadrats). The location of quadrats in relation to floristic communities is shown in Appendix 5.

Following their establishment and boundary verification, the location of each quadrat was recorded by GPS (Appendix 2), photographed (Appendix 3) and all vascular plants within the quadrat were recorded (Appendix 4). This included recording of dominant taxa from the upper, middle and lower stratum, and sampling of all unknown taxa. Unknown taxa were identified using Botanica's own reference herbarium and relevant taxonomical keys or by a taxonomic consultant. Data on level of disturbance, presence of coarse fragments on surface, topographical position, elevation, aspect, percentage litter, percentage bare ground, percentage surface rock (bedrock and surface deposits), soil types (colour, profile, field texture

and surface type), and vegetation structure were collected from each quadrat (Appendix 4). Methods of recording data from these quadrats largely follow those outlined in CSIRO's *Australian Soil and Land Survey Field Handbook* (McDonald *et al.* 1998), the DBCA Recommended Interim Protocol for Flora Surveys of Banded Ironstone Formations (BIF) of the Yilgarn Craton (DEC, 2007) and in accordance with current EPA Guidelines (2016).

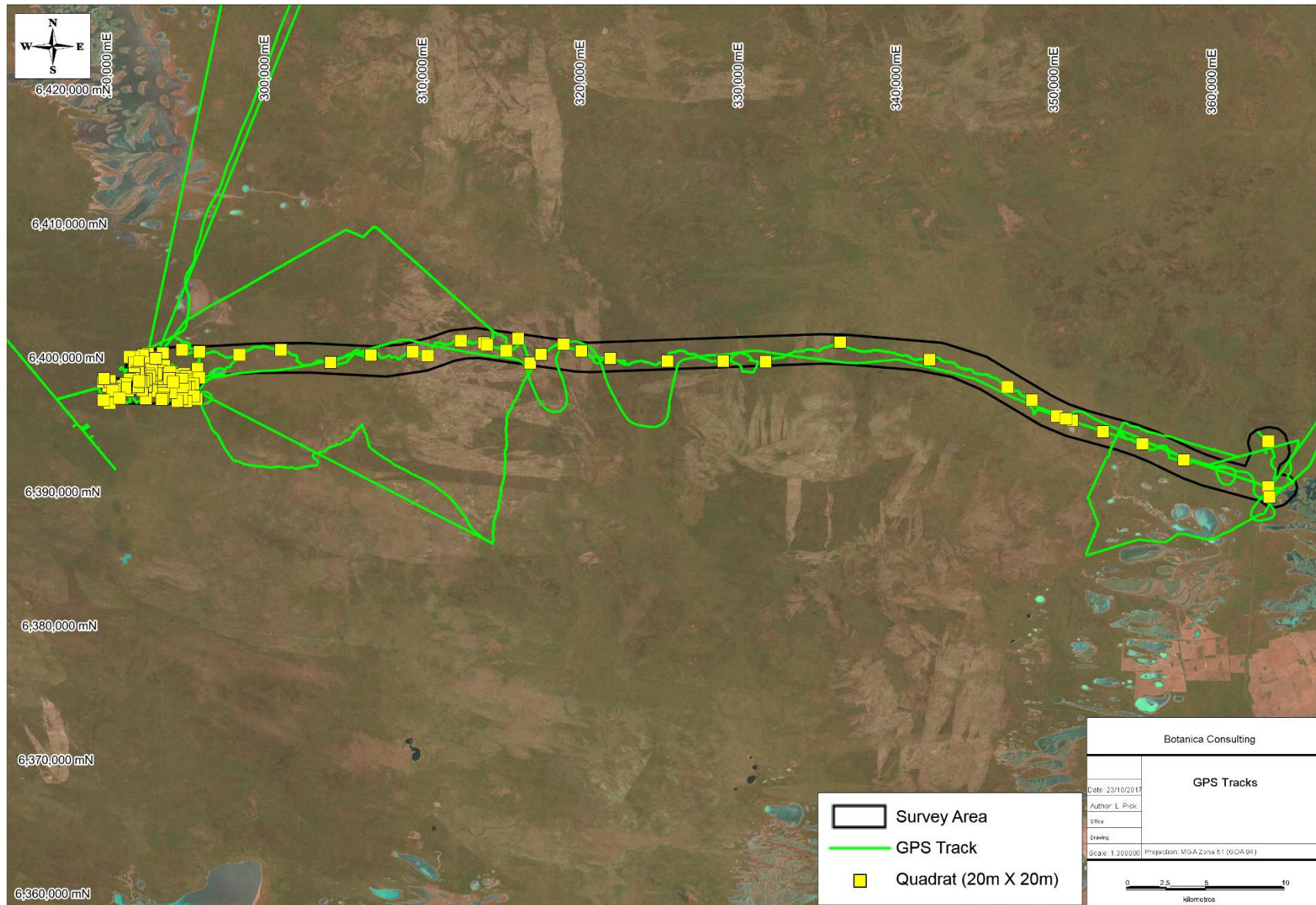


Figure 11: Survey area boundary and GPS tracks traversed throughout the survey area

3.2.2 Personnel involved

Jim Williams - Environmental Consultant/ Director (Diploma of Horticulture)
 Andrea Williams - Environmental Consultant (BSc Hons Mineral Resources Management)
 Lauren Pick - Environmental Consultant (Bachelor of Science-Conservation Biology)
 Patrick Harton - Environmental Consultant (Bachelor of Environmental Science)
 Matthew Newlands - Environmental Technician
 Emma Williams - Environmental Technician
 Alana Butler - Environmental Technician
 Frank Obbens - Taxonomical Consultant
 Mike Hislop - WA Herbarium Taxonomic Consultant

3.2.3 Scientific licences

Table 3: Scientific Licences of Botanica Staff coordinating the survey

Licensed staff	Permit Number	Valid Until
Jim Williams	SL011001	21-05-15
	SL011451	21-05-16
	SL011826	21-05-17
	SL012116	21-05-18
Andrea Williams	SL011002	21-05-15
	SL011450	21-05-16
	SL011824	21-05-17
	SL012115	21-05-18
Lauren Pick	SL011000	21-05-15
	SL011449	21-05-16
	SL011825	21-05-17
	SL012117	21-05-18
Patrick Harton	SL011003	21-05-15
	SL011452	21-05-16

3.3 Data Analysis Tools

Once the survey was completed the data obtained was analysed to generate a vegetation map (Appendix 5). The statistical program PATN was used to assess species composition of the quadrats (Appendix 6).

3.3.1 PATN Analysis

The PATN software package was used to assess the similarities/ dissimilarities between quadrats based on presence/ absence of species. This analysis was conducted to assess quadrats both within the survey area and quadrats established within the Bremer Range PEC surveyed by Gibson and Lyons as part of the flora and vegetation survey of the Eastern Goldfields Ranges: Bremer Range (Gibson & Lyons, 1998).

Annual taxa were removed from the data prior to analysis (total of 48 annual taxa). Species reconciliation eliminated those sterile taxa that could not be fully identified from the analysis (23 taxa-including five sterile taxa from the MVM Project), and reconciled subsp. and/or variant

taxa. Singleton taxa were excluded from the analysis (101 taxa). 211 perennial taxa were included in the final analysis.

The analysis produced a quantitative estimate of the relationship between species composition of each quadrat. The classifications were based upon a Bray-Curtis association matrix using a flexible Unweighted Pair Group Arithmetic Mean (UPGMA) method (with a beta value of -0.1) which standardises the data enabling the analysis to be completed. Semi-strong hybrid (SSH) ordination of the quadrat is then undertaken to show spatial relationships between groups and to elucidate possible environmental correlates with the classification.

The analysis also produced a stress value which is a measure of the 'strength' of the analysis (i.e. how well the quadrats are grouped together into the appropriate floristic groups). The lower the stress value the greater the strength of the analysis with a value of less than 0.3 showing that the analysis appropriately grouped quadrats. A stress value greater than 0.3 suggests that the analysis was unable to group quadrats appropriately due to extraneous variables (i.e. other factors influencing differences in floristic groups other than species composition e.g. fire, clearing disturbance etc.).

3.3.2 EstimateS

EstimateS software was used to estimate species richness present using the Chao2 richness estimator. For any number of samples, the estimator uses the existing pattern of species accumulation to estimate the true number of species at a site. The estimators tend to underestimate species number when sample size is small, hence the estimated number of true species can be seen to increase with sample size. This software was also used to compute Coleman rarefaction curves estimates which were used to calculate species accumulation curves.

3.4 Flora survey limitations and constraints

It is important to note that flora surveys will entail limitations notwithstanding careful planning and design. Potential limitations are listed in Table 4.

Table 4: Limitations and constraints associated with the flora and vegetation survey

Variable	Potential Impact on Survey	Details
Access problems	Not a constraint	Access tracks within the survey area were limited, however the area was sufficiently covered through the use of 4WD, all-terrain vehicle and on foot.
Competency/ Experience	Not a constraint	The Botanica personnel that conducted the survey were regarded as suitably qualified and experienced. Coordinating Botanist: Jim Williams Field Staff: Jim Williams, Andrea Williams, Lauren Pick, Pat Harton, Matthew Newlands, Alana Butler, Emma Williams Data Interpretation: Jim Williams, Andrea Williams & Lauren Pick
Timing of survey, weather & season	Not a constraint	Survey work has been conducted over multiple years and different seasons in accordance with technical guidelines for flora and vegetation surveys (EPA, 2016). Surveys

Variable	Potential Impact on Survey	Details
		<p>were conducted during optimum time when a large number of annual species were present and many species were in flower. Supplementary surveys were also conducted in dry periods as recommended by EPA and additional wet periods.</p> <p>Targeted surveys were conducted over multiple seasons including during optimal flowering/ budding period for conservation significant flora known to occur within the survey area and following above average rainfall to identify cryptic/ annual taxa.</p>
Area disturbance	Minor constraint	<p>The survey area has been subject to disturbance from fire over multiple years. Vegetation structure of regrowth vegetation types is subject to change with continued recovery from fire.</p>
Survey Effort/ Extent	Not a constraint	<p>Survey intensity was high with a quadrat based detailed survey and targeted surveys conducted over multiple years/ seasons. Prior to the quadrats being established a reconnaissance of the survey area was conducted in order to identify vegetation communities and any Flora of Conservation Significance.</p>
Availability of contextual information at a regional and local scale	Not a constraint	<p>Threatened flora database searches provided by the DBCA were used to identify any potential locations of Threatened/Priority Flora species.</p> <p>BoM, DWER, DPIRD, DBCA and DotEE databases were reviewed to obtain appropriate regional desktop information on the biophysical environment of the local region.</p> <p>Environmental assessments within the local region have been limited however Botanica was able to obtain information about the area from previous flora assessments conducted within the Coolgardie region and reconnaissance surveys conducted by Botanica which provided context on the local environment.</p>
Data Analysis	Minor constraint	<p>Botanica staff conducting the PATN analyses are not statistical analysts and have basic statistics training. These analyses are able to provide basic information on the relationships between vegetation communities.</p>
Completeness	Minor constraint	<p>In the opinion of Botanica, the survey area was covered sufficiently in order to identify vegetation assemblages. Survey work has been conducted over multiple years and different seasons in accordance with technical guidelines for flora and vegetation surveys (EPA, 2016). Surveys were conducted during optimum time when a large number of annual species were present and many species were in flower. Supplementary surveys were also conducted in dry periods as recommended by EPA and additional wet periods. It is estimated that approximately 85% of the flora within the survey area were able to be fully identified.</p> <p>The vegetation types for this study were based on visual descriptions of locations in the field. The distribution of</p>

Variable	Potential Impact on Survey	Details
		these vegetation communities outside the study area is not known, however vegetation types identified were categorised via comparison to vegetation distributions throughout WA specified in the NVIS Major Vegetation Groups (DotEE, 2017b).

4 Results

Desktop Assessment

4.1 Literature Review

Flora and vegetation surveys, assessments and reviews have been undertaken in nearby areas in the past, though some are not publicly available and could not be referenced. The most relevant of those available have been used as the primary reference material for the current vegetation assessment (Table 5).

Table 5: Previous Flora and Vegetation Surveys within the surrounding area used as primary reference material

Survey/ Author/ Year	Vegetation/Landforms	Flora of Conservation Significance
How R.A. <i>et al</i> (1998)	Seven broad landforms: 1. Breakaway; 2. Granite Exposure; 3. Hill: Granite & Banded Ironstone Formation; 4. Salt Lake Features: Saline flats, well-drained flats; 5. Sandplains; 6. Undulating Plain; and 7. Broad Valley.	Two Threatened Flora: 1. <i>Banksia sphaerocarpa</i> var. <i>dolichostyla</i> ; and 2. <i>Drummondita hassellii</i> . <i>Drummondita hassellii</i> is no longer listed as Threatened or Priority Flora.
Brearley, Dunlop and Osborne (1998)	Nine vegetation communities including: 1. <i>Eucalyptus eremophila</i> ssp. <i>Eremophila</i> Tree Mallee above mixed spp. Dwarf Scrub C above <i>Triodia scariosa</i> Open Hammock Grass with <i>Lepidosperma</i> sp. Very Open Low Sedges 2. <i>E. tenuis</i> / <i>E. flocktoniae</i> Low Woodland A above <i>Callitris preissii</i> ssp. <i>verrucose</i> Scrub above <i>Eremophila clavata</i> Dwarf Scrub D. 3. <i>Eucalyptus flocktoniae</i> / <i>E. tenuis</i> Low Forest A above Boree Scrub 4. <i>Eucalyptus longicornis</i> Woodland above <i>Cratystylis conocephala</i> Dwarf Scrub 5. Mixed Eucalypt Low Forest A above Open Low Scrub A above <i>Eremophila clavata</i> Dwarf Scrub D. 6. <i>Eucalyptus eremophila</i> , <i>E. melanoxylon</i> , <i>E. oleosa</i> var. <i>oleosa</i> Thicket. 7. <i>Eucalyptus flocktoniae</i> / <i>E. tenuis</i> Low Woodland A above mixed spp. Low Scrub A above <i>Eremophila clavata</i> , <i>Olearia muelleri</i> , <i>Scaevola spinescens</i> Dwarf Scrub D. 8. <i>E. dundasii</i> / <i>E. longicornis</i> / <i>E. flocktoniae</i> Woodland above boree / <i>Eremophila</i> Scrub above <i>Cratystylis conocephala</i> Dwarf Scrub C. 9. <i>Cratystylis conocephala</i> Low Scrub B above mixed spp. Dwarf Scrub D.	Two Threatened Flora: 1. <i>Leucopogon breviflorus</i> ; and 2. <i>Eucalyptus georgei</i> subsp. <i>georgei</i> . <i>Leucopogon breviflorus</i> is not currently listed as Threatened or Priority Flora. <i>Eucalyptus georgei</i> subsp. <i>georgei</i> is currently listed as a Priority 4 taxon.
Gibson and Lyons (1998)	Six broad vegetation communities which included: 1. Community Type 1 -This community type is typically dominated by <i>Eucalyptus rhomboidea</i> and <i>E. eremophila</i> . It was largely restricted to the Bremer Range proper but also flanked Round Top Hill. <i>Melaleuca</i> species in the <i>M. pauperiflora</i> complex were common components of the understorey in this community (and types 2 and 3). <i>Eremophila clavata</i> was also common in community types 1 (and type 2), while <i>Acacia deficiens</i> and <i>Grevillea acuarina</i> were largely restricted to community type 1. 2. Community Type 2 -Typical <i>Eucalyptus flocktoniae</i> woodlands of the area. Other eucalypts cooccurring in this community included <i>E. salubris</i> , <i>E. salmonophloia</i> , <i>E. dundasii</i> and <i>E. tenuis</i> . Typical understorey species included <i>Daviesia argillacea</i> , <i>Dodonaea stenozyga</i> and <i>Acacia poliochroa</i> . This community occurred on both broad flat ridges and side slopes. 3. Community Type 3 - Generally dominated by <i>Eucalyptus flocktoniae</i> and /or <i>Eucalyptus longicornis</i> . This community was typical of the more saline soils. Again, species in the <i>M. pauperiflora</i> complex were common in the understorey. This community was restricted to ridges and flats adjacent to the large salt lake systems.	One Threatened Flora: <i>Allocasuarina globosa</i> . Four Priority Flora: 1. <i>Acacia truculenta</i> (P3) 2. <i>Eucalyptus cerasiformis</i> (P4) 3. <i>Eucalyptus georgei</i> subsp. <i>georgei</i> (P4); and 4. <i>Eucalyptus rhomboidea</i> (P4)

Survey/ Author/ Year	Vegetation/Landforms	Flora of Conservation Significance
	<p>4. Community Type 4-Similar in species composition to type 3 but has a lower frequency of the saline-tolerant species. It was often dominated by <i>Eucalyptus longicornis</i> and/or <i>E. salmonophloia</i> but can also be dominated by <i>E. georgei</i> subsp <i>georgei</i> or <i>E. dundasii</i>.</p> <p>5. Community Type 5- Generally dominated by either <i>Eucalyptus livida</i> woodland (on the lateritic tops) or by <i>Allocasuarina</i> thickets (on the greenstone ridges). Species typical of this community include <i>Allocasuarina campestris</i> and <i>Lepidosperma</i> sp (GJK 7000); it was widespread throughout the Bremer Range area, mostly on lateritic breakaways.</p> <p>6. Community Type 6-Occurred on the massive greenstone ridges with skeletal soils. Typical species from species group B included <i>Acacia duriuscula</i>, <i>Allocasuarina globosa</i>, <i>Eucalyptus georgei</i> subsp <i>georgei</i> and <i>Eucalyptus oleosa</i>.</p>	
Paul Armstrong and Associates (2012)	<p>Nine vegetation communities in various stages of regrowth including:</p> <ol style="list-style-type: none"> 1. Recovering <i>Eucalyptus salmonophloia</i> Woodland; 2. Recovering <i>E. eremophila</i> Woodland; 3. Recovering <i>Eucalyptus</i> Woodland 1 and 2 (juveniles); 4. Recovering <i>Eucalyptus</i> Woodland 2 (<i>Eucalyptus</i> spp. sterile); 5. Recovering Mallee 1 (<i>E. rhomboidea</i>/ <i>E. eremophila</i>); 6. Recovering Mallee 2 (<i>Eucalyptus</i> spp. sterile); 7. Recovering Dwarf Scrub (<i>Melaleuca uncinata</i> and/or <i>Allocasuarina campestris</i>); 8. Recovering Low Heath (<i>Lepidosperma sanguinolentum</i>); and 9. Recovering Lateritic Ridge (<i>Eucalyptus eremophila</i>, <i>Eucalyptus calycogona</i> and patches of <i>Eucalyptus rhomboidea</i>). 	<p>One Threatened Flora: <i>Marianthus aquilonaris</i>. Four Priority Flora: 1. <i>Eucalyptus rhomboidea</i> (P4); 2. <i>Hakea pendens</i> (P3); 3. <i>Stenanthemum bremerense</i> (P3); and 4. <i>Teucrium</i> sp. dwarf (R. Davis 8813) (P1)¹.</p>
Botanica (2013)	N/A	<p>One Threatened Flora: <i>Marianthus aquilonaris</i>. Four Priority Flora: 1. <i>Eucalyptus rhomboidea</i> (P4); 2. <i>Hakea pendens</i> (P3); 3. <i>Stenanthemum bremerense</i> (P3); and 4. <i>Teucrium</i> sp. dwarf (R. Davis 8813) (P1)¹.</p>
Botanica (2015)	<p>Ten vegetation communities were identified within the survey area:</p> <ol style="list-style-type: none"> 1. Burnt open tree mallee of <i>Eucalyptus livida</i> over open low scrub of <i>Hakea pendens</i> (P3) and open dwarf scrub of <i>Goodia medicaginea</i>; 2. Burnt open low woodland of <i>Eucalyptus salmonophloia</i> over dwarf scrub of <i>Melaleuca</i> sp. (Sterile) and open low grass of <i>Austrostipa variabilis</i>; 3. Burnt forest of <i>Eucalyptus urna</i> over low scrub <i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i> and open dwarf scrub of <i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>; 	<p>One Threatened Flora: <i>Marianthus aquilonaris</i>. Six Priority Flora: 1. <i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3); 2. <i>Eucalyptus rhomboidea</i> (P4);</p>

¹ At the time of survey/ report was listed as *Teucrium* sp. dwarf (R. Davis 8813) Priority 1 however this taxon is currently listed as *Teucrium diabolicum* Priority 3

Survey/ Author/ Year	Vegetation/Landforms	Flora of Conservation Significance
	4. Regrowth dwarf scrub of <i>Anthocercis anisantha</i> subsp. <i>anisantha</i> / <i>Acacia poliochroa</i> / <i>Alyogyne hakeifolia</i> / <i>Dodonaea stenozyga</i> ; 5. Regrowth of dense low forest of <i>Eucalyptus</i> sp. (Sterile). 6. Regrowth open low woodland of <i>Codonocarpus cotinifolius</i> over low scrub of <i>Acacia</i> sp. (Sterile)/ <i>Melaleuca hamata</i> and open low grass of <i>Schoenus brevisetis</i> ; 7. Regrowth open shrub mallee of <i>Eucalyptus</i> sp. (Sterile) over open low scrub of <i>Acacia acanthoclada</i> / <i>Grevillea huegelii</i> and hummock grass of <i>Triodia scariosa</i> ; 8. Very open shrub mallee of <i>Eucalyptus</i> sp. (Sterile) over low scrub of <i>Acacia assimilis</i> subsp. <i>assimilis</i> / <i>A. yorkrakinensis</i> / <i>Duboisia hopwoodii</i> and open low grass of <i>Schoenus breviculmis</i> ; 9. Open shrub mallee of <i>Eucalyptus livida</i> over low scrub of <i>Allocasuarina campestris</i> / <i>Hakea francisiana</i> / <i>Melaleuca hamata</i> and open low sedges of <i>Lepidosperma sanguinolentum</i> ; and 10. Low woodland of <i>Eucalyptus urna</i> over low heath of <i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i> and dwarf scrub of <i>Acacia erinacea</i> / <i>Acacia poliochroa</i> .	3. <i>Hakea pendens</i> (P3); 4. <i>Microcybe</i> sp. Windy Hill (G.F. Craig 6583) (P3) 5. <i>Stenanthemum bremerense</i> (P4); and 6. <i>Teucrium</i> sp. dwarf (R. Davis 8813) (P1) ¹ .

4.2 Flora of Conservation Significance

The results of the combined search of the DBCA Flora of Conservation Significance databases, Naturemap search and DotEE protected matters search recorded a total of 124 Priority Flora and 11 Threatened Flora taxa within the local region. These taxa were assessed and ranked for their likelihood of occurrence within the survey area (Table 6). Eight taxa were recorded on the database as occurring within the survey area (listed as 'known to occur' in Table 6). The rankings and criteria used were:

- Unlikely: Area is outside of the currently documented distribution for the species/no suitable habitat (type, quality and extent) was identified as being present during field/desktop assessments.
- Possible: Area is within the known distribution of the species in question and habitat of at least marginal quality was identified as being present during field/desktop assessments, supported in some cases by recent records being documented from within or near the area.
- Known to Occur: The species in question was positively identified as being present during field assessments/ DBCA database record.

Table 6: Likelihood of occurrence for Flora of Conservation Significance within the survey area

Taxon	EPBC Act	BC Act	DBCA Priority Rating	Description (WAHERB, 2019)	Likelihood of Occurrence
<i>Acacia amyctica</i>			P2	Erect, bushy, pungent shrub, 0.7-1.5 m high. Fl. yellow, Aug to Sep. Sandy loam or clay. Flats.	Possible
<i>Acacia ancistrophylla</i> var. <i>perarcuata</i>			P3	Rounded or obconic shrub, 0.6-1.6 m high, to 6 m wide. Fl. yellow, Aug to Sep. Red sand, clay loam, loam. Undulating plains.	Possible
<i>Acacia asepala</i>			P2	Diffuse, much-branched shrub, 0.5-1.5 m high. Fl. yellow, Aug. Red-brown sandy loam. Undulating plains, along drainage lines.	Unlikely
<i>Acacia diaphana</i>			P1	Bushy shrub, 1.5-3 m high. Fl. yellow. Clay, sandy loam. Wet or waterlogged depressions.	Unlikely
<i>Acacia dissona</i> var. <i>indoloria</i>			P3	Domed or rounded, dense, pungent shrub, 0.5-2 m high. Fl. yellow, Aug to Sep. Sand, sandy loam. Undulating plains.	Possible
<i>Acacia dorsenna</i>			P1	Dense, domed shrub, 1-1.6 m high, to 3 m wide. Fl. yellow, Aug to Sep. Rocky sandy loam or clay loam. Low rocky hills.	Possible
<i>Acacia eremophila</i> var. Numerous-nerved variant (A.S.George 11924)			P3	Dense, spreading shrub, 1-2 m high. Fl. yellow, Sep. Sandy soils. Flats.	Possible
<i>Acacia hystrix</i> subsp. <i>continua</i>			P1	Rounded or obconic shrub, 0.3-1 m high. Fl. yellow. Clay loam.	Known to occur
<i>Acacia improcera</i>			P3	Spreading, spiny shrub, 0.15-0.4 m high. Fl. yellow, Aug. Sand,	Possible

Taxon	EPBC Act	BC Act	DBCA Priority Rating	Description (WAHERB, 2019)	Likelihood of Occurrence
				loamy clay, clay. Undulating plains, flats.	
<i>Acacia kerryana</i>			P2	Low, spreading, domed shrub, 0.3-1 m high. Fl. yellow, Oct to Dec or Jan to Feb. Granitic loamy sand, stony clayey loam or clayey sand. Low stony ridges, undulating plains.	Unlikely
<i>Acacia singula</i>			P3	Shrub, 0.35-2 m high. Fl. yellow, Aug to Oct. Gravelly sand over laterite, white or yellow sand. Rises, hilltops.	Unlikely
<i>Acacia truculenta</i>			P3	Spreading, straggly, prickly shrub, 0.7-2.2 m high. Fl. yellow, Aug to Sep. Sand or loam.	Possible
<i>Adenanthos gracilipes</i>			P3	Erect, lignotuberous shrub, 0.4-1.5 m high. Fl. cream & red & pink, Mar or Aug to Dec. White sand.	Unlikely
<i>Allocasuarina eriochlamys</i> subsp. <i>grossa</i>			P3	Dioecious or monoecious shrub, 1-3 m high, bracteoles prominently exceeding cone. Stony loam, laterite clay. Granite outcrops.	Possible
<i>Angianthus newbeyi</i>			P2	Erect or ascending annual, herb, 0.03-0.05 m high. Fl. yellow, Sep. Sub-saline sand. On slopes into salt lakes.	Possible
<i>Aotus prosacris</i>			P1	Prostrate shrub, to 0.3 m high. Fl. yellow/orange, Sep. White sand, cream sand over laterite. Flats.	Unlikely
<i>Aotus</i> sp. Dundas (M.A. Burgman 2835)			P2	No description available	Known to occur
<i>Atriplex lindleyi</i> subsp. <i>conduplicata</i>			P3	Monoecious, short-lived annual or perennial, herb, ca 0.2 m high. Crab hole plains.	Unlikely
<i>Baeckea</i> sp. Exclamation Lake (M.E. Trudgen 1524)			P1	Shrub, to 0.6 m high, bark grey with parallel longitudinal fissures. Red-brown loam, quartz, granite. Small depressions.	Unlikely
<i>Baeckea</i> sp. Fitzgerald Peaks (P.J. Poli 53)			P2	No description available	Possible
<i>Baeckea</i> sp. Hatter Hill (K.R. Newbey 3284)			P3	Narrow, open, upright shrub, to 1.3 m high. Fl. pink, Jun to Oct. Yellow-orange coarse sandy loam with laterite gravel, red-brown sandy loam with quartz pebbles. Undulating plains.	Possible
<i>Baeckea</i> sp. Mt Gibbs (G.F. Craig 7031)			P2	No description available	Possible
<i>Banksia lullfitzii</i>			P3	Lignotuberous shrub, 0.8-2 m high. Fl. yellow-orange/orange-brown, Mar to May. Yellow sand. Sandplains.	Possible
<i>Banksia rufa</i> subsp. <i>flavescens</i>			P3	Prostrate, lignotuberous shrub, to 0.45 m high. Fl. cream-yellow, Jul to Aug. Sandy loam or sand with gravel.	Possible

Taxon	EPBC Act	BC Act	DBCA Priority Rating	Description (WAHERB, 2019)	Likelihood of Occurrence
<i>Banksia sphaerocarpa</i> var. <i>dolichostyla</i>	VU	VU		Lignotuberous shrub, 1-3 m high. Fl. yellow-orange, Mar to May. Lateritic gravel, grey sand.	Possible
<i>Banksia viscida</i>			P3	Densely branched, non-lignotuberous shrub, 0.4-1 m high. Fl. yellow-orange, Jul to Oct. Gravelly soils. Lateritic rises.	Possible
<i>Beyeria sulcata</i> var. <i>truncata</i>			P3	No description available	Possible
<i>Boronia acanthoclada</i>			P2	Spreading shrub, ca 0.3 m high, leaves alternate, branchlets spinescent. Fl. white, Sep. Sand over gravel.	Possible
<i>Boronia corynophylla</i>			P2	Spreading, densely branched shrub, ca 0.3 m high, leaves terete to clavate, cuticle exfoliating to form a grey scurfy covering. Fl. red. Well drained clayey sand. Eucalyptus salmonophloia open woodland.	Possible
<i>Boronia revoluta</i>	EN	VU		Shrub, 0.4-0.8 m high. Fl. pink, Jul to Aug. Stony sandy loam or sand. Plains, hillsides & summits.	Unlikely
<i>Bossiaea arcuata</i>			P1	Erect, divaricately branched superficially leafless shrub, to 1.5 m high. Fl. yellow& red, Mar to Apr or Sep to Oct. Deep white sand. Perimeter of salt lakes.	Possible
<i>Bossiaea aurantiaca</i>			P1	Compact, rounded or spreading, spinescent shrub, to 1.5 m high. Fl. red/yellow, Sep to Oct. Red sand, red clay loam. Low-lying, winter-damp sites.	Unlikely
<i>Bossiaea flexuosa</i>			P3	Compact shrub, to 0.6 m high. Fl. yellow-orange-red-brown, Sep to Nov. Deep sandy soil.	Possible
<i>Bossiaea saxosa</i>			P1	Erect, intricately-branched shrub, to 1.5 m high. Fl. yellow-cream, Sep to Oct. Stony, red soil. Woodlands.	Possible
<i>Bossiaea simulata</i>			P2	Compact shrub, to 1 m high. Fl. yellow, Oct to Dec. Sandy loam. Well-drained sites, raised sites in salt lakes, sand dunes above samphire zone.	Unlikely
<i>Chrysocephalum apiculatum</i> subsp. <i>norsemanense</i>			P3	No description available	Possible
<i>Comesperma calcicola</i>			P3	Soft perennial, herb, to 0.3 m high. Fl. pink, Oct to Dec or Jan. Calcareous or semi-saline clay loams, limestone. Areas around saline water.	Possible
<i>Conospermum sigmoideum</i>			P2	Erect shrub, 0.2-0.5 m high. Fl. blue, Aug to Sep. Yellow sand.	Unlikely
<i>Conostylis lepidospermoides</i>	EN	VU		Rhizomatous, tufted perennial, grass-like or herb, 0.17-0.36 m high. Fl. yellow, Sep to Oct. Grey or yellow-brown sand over laterite.	Unlikely

Taxon	EPBC Act	BC Act	DBCA Priority Rating	Description (WAHERB, 2019)	Likelihood of Occurrence
<i>Cryptandra crispula</i>			P3	Non-spinescent shrub, 0.25-0.9 m high. Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes.	Unlikely
<i>Cryptandra exserta</i>			P1	Shrub, to c. 0.5 m high. Sandy soil with laterite gravel, red sand over clay. Gentle mid-slopes, plains.	Possible
<i>Cyathostemon</i> sp. Esperance (A. Fairall 2431)			P1	No description available	Possible
<i>Cyathostemon</i> sp. Jyndabinbin Rocks (K.R. Newbey 7689)			P2	No description available	Possible
<i>Cyathostemon</i> sp. Lake King (M.E. & M.E. Trudgen 1462)			P2	Erect shrub, to 0.8 m high. Fl. pink/white, Oct. Yellow-brown sand or sandy clay, gravel, laterite. Plains.	Possible
<i>Cyathostemon</i> sp. Red Roo Rock (G.F. Craig 6896)			P1	No description available	Possible
<i>Cyathostemon</i> sp. Salmon Gums (B. Archer 769)			P3	Erect, compact shrub, to 3 m high. Fl. white, May or Oct to Nov. Orange sand, white sand or sandy clay over granite, light brown clay with gypsum, saline soils. Flats, dry river beds, near claypans.	Unlikely
<i>Dampiera sericantha</i>			P3	Erect, slender perennial, herb, 0.05-0.3(-0.6) m high, stems with blunt angles. Fl. blue, May or Aug to Dec. Sand, sometimes with gravel. Plains.	Possible
<i>Darwinia polycephala</i>			P4	Diffuse shrub, 0.1-0.5 m high. Fl. red-purple, Mar or May to Jul or Sep. Sand, clay. Flats, near salt lakes.	Possible
<i>Darwinia</i> sp. Peak Charles (A.S. George 10627)			P2	Shrub, ca 1.7 m high. Fl. white-red, Apr. Granitic loam.	Unlikely
<i>Daviesia microcarpa</i>	EN	CR		Sprawling, tangled shrub, to 0.4 m high, ca 1 m wide. Fl. orange & red, Sep. Weathered gravel.	Unlikely
<i>Daviesia newbeyi</i>			P3	Bushy, multi-stemmed, broom-like shrub, 0.25-1.5 m high. Fl. orange/yellow & red, Aug to Oct. Sand or sandy clay over granite. Rocky slopes.	Possible
<i>Dielsiodoxa leucantha</i> subsp. <i>leucantha</i>			P3	No description available	Possible
<i>Drummondita longifolia</i>	VU	VU		Shrub, 0.3-1 m high, well-spaced slender leaves, resinous sepals and branchlets. Fl. red/white/pink, Apr to May or Aug or Oct. Granitic loam, skeletal sandy loam.	Unlikely
<i>Eremophila denticulata</i> subsp. <i>trisulcata</i>	EN	EN		Compact shrub, to 2 m high. Fl. pink-orange-red, May or Sep. Sand or loam over limestone.	Unlikely

Taxon	EPBC Act	BC Act	DBCA Priority Rating	Description (WAHERB, 2019)	Likelihood of Occurrence
<i>Eremophila hamulata</i>			P1	No description available	Possible
<i>Eremophila lucida</i>			P1	Shrub, to 1.8 m high. Fl. cream-yellow, Oct. Clay loam, sandy loam. Adjacent to samphire flats & granite outcrops.	Possible
<i>Eremophila parvifolia</i> subsp. <i>parvifolia</i>			P4	Low, divaricate shrub, 0.15-0.7 m high. Fl. blue-purple, Jun or Sep to Oct or Jan to Feb. Loam, yellow sand, clay, limestone. Plains, claypans.	Unlikely
<i>Eremophila purpurascens</i>			P3	Erect, bushy shrub, 0.3-1.5 m high. Fl. pink & purple/red, Aug to Oct. Sandy clay, stony loam over greenstone. Granite hills & rocks.	Possible
<i>Eremophila succinea</i>			P3	Erect shrub, 1.2-3 m high. Fl. blue-purple, Sep. Clay, sand over clay.	Possible
<i>Eremophila virens</i>	EN	EN		Erect, slender shrub, 1.5-5 m high. Fl. green, Aug to Oct. Red/brown sand. Granite hillsides.	Unlikely
<i>Eucalyptus brockwayi</i>			P3	Tree, 5-20 m high, bark smooth. Fl. white-cream, Mar to Jun. Gravelly sandy loam. Low rocky hills & slopes.	Possible
<i>Eucalyptus deflexa</i>			P4	(Mallee), 1-3 m high, bark smooth. Fl. pink/cream-white, Mar or May to Oct. Clay loam, sandy loam, white or yellow sand, often with gravel. Flat areas & slight rises.	Possible
<i>Eucalyptus fraseri</i> subsp. <i>melanobasis</i>			P2	Tree, 8-15 m high, bark rough, dark grey-black at the base for 1-2 m. Fl. white, Jan to Mar. Red calcareous loam.	Possible
<i>Eucalyptus histophylla</i>			P3	(Mallee), 2-6 m high, bark smooth. Fl. yellow, Dec. Sandy loam on granite or laterite. Granite outcrops.	Possible
<i>Eucalyptus jimberlanica</i>			P1	Mallee or tree, 4-10 m high, bark smooth. Loam. Valley edges.	Unlikely
<i>Eucalyptus misella</i>			P1	(Mallee), 1-3 m high, bark smooth. Fl. cream, Nov. White, yellow or grey sand. Low-lying sandplains.	Possible
<i>Eucalyptus platydisca</i>	VU	VU		Mallee, 2-4 m high, bark smooth. Granitic soils, clay. Stony hills.	Unlikely
<i>Eucalyptus pterocarpa</i>			P3	Tree, to 15 m high, bark smooth throughout, becoming ribbony, light grey over salmon cream. Red-brown sandy loam, yellow-brown silty loam. Creek edges, rocky slopes.	Possible
<i>Eucalyptus rhomboidea</i>			P4	Tree, 8-10 m high. Gravelly sand. Slight rises.	Known to occur
<i>Eucalyptus rugulata</i>			P4	Tree or (mallet), to 12 m high, bark smooth, decorticating in strips, grey-olive oversilvery grey to pale tan-cream. Fl. yellow-cream, Nov. Orange laterite	Possible

Taxon	EPBC Act	BC Act	DBCA Priority Rating	Description (WAHERB, 2019)	Likelihood of Occurrence
				gravel. Summits, gentle upland slopes.	
<i>Eucalyptus websteriana</i> subsp. <i>norsemanica</i>			P1	Spreading mallee, to 3 m high, bark 'minni-ritchi'. Fl. yellow, Sep to Nov. Rocky rises.	Unlikely
<i>Eutaxia acanthoclada</i>			P3	Compact, mat-forming, prostrate shrub, to 0.3 m high. Fl. yellow/orange/red, Oct to Nov. Light brown sandy clay, shallow sandy loam, red clay over banded ironstone, gravel. Gently undulating plains.	Possible
<i>Eutaxia actinophylla</i>			P3	Shrub, to 0.5 m high. Fl. yellow/red, Sep to Oct. Red-brown clay loam, red clay loam over granite, gravel. Small depressions.	Unlikely
<i>Eutaxia andocada</i>			P1	Erect shrub (with sparse ascending branches), 0.2-0.4 m high. White sand or brown sandy-clay over granite.	Possible
<i>Frankenia glomerata</i>			P4	Prostrate shrub. Fl. pink-white, Nov. White sand.	Unlikely
<i>Gastrolobium acrocaroli</i>			P2	Erect, open shrub, to 2.7 m high. Fl. orange/yellow, Apr or Sep to Nov. Skeletal soils over granite. Rock outcrops, open shrubland or dense heath.	Unlikely
<i>Gastrolobium cruciatum</i>			P3	Spreading shrub, to 0.5 m high. Fl. Yellow & red, Sep. Sand & clayey sand with gravel, rocky loams, laterite. Flats, gently undulating areas.	Possible
<i>Gastrolobium hians</i>			P1	Erect shrub (more or less glaucous), to 1.7 m high. Fl. Orange & yellow & purple, Sep. Sandy loam or clay soils. Sandplains.	Possible
<i>Gastrolobium involutum</i>			P1	Erect, spreading shrub, to 3 m high. Fl. orange, Jun to Nov. Sandy soils over granite. Base of rock outcrops, drainage channels.	Possible
<i>Goodenia laevis</i> subsp. <i>laevis</i>			P3	Erect, woody shrub (subshrub), 0.1-0.25 m high, largest leaves 15-25 x 1-3 mm, entire. Fl. yellow, Aug to Dec. Sandy loam or laterite.	Possible
<i>Goodenia scapigera</i> subsp. <i>graniticola</i>			P2	Herb, 0.7-1.5 m high, leaves fasciculate, linear, entire. Fl. white, Sep to Oct. Skeletal loamy sand over granite. Hillsides & rocky outcrops.	Possible
<i>Grevillea aneura</i>			P4	Dense, prickly shrub, 0.5-2.8 m high. Fl. red, Jun or Aug to Dec or Jan. Sand, sandy clay, gravel.	Possible
<i>Grevillea phillipsiana</i>			P1	Prickly shrub, 0.8-1.5 m high. Fl. red/red & orange, Jul to Sep. Red sand, stony loam. Granite hills.	Possible

Taxon	EPBC Act	BC Act	DBCA Priority Rating	Description (WAHERB, 2019)	Likelihood of Occurrence
<i>Haegiela tatei</i>			P4	Ascending to erect annual, herb, 0.02-0.08(-0.2) m high. Fl. white-yellow, Aug to Nov. Clay, sandy loam, gypsum. Saline habitats.	Unlikely
<i>Hibbertia carinata</i>			P1	Shrub, to 0.4 m high. Fl. yellow, Aug to Sep. Well-drained gravelly sand, yellow sand with gravel.	Unlikely
<i>Hibbertia charlesii</i>			P2	Shrub, to 1 m high. Fl. yellow, Oct to Nov. Skeletal loamy sand, granite. Exposed mountain slopes.	Unlikely
<i>Hibbertia pachyphylla</i>			P3	Shrub, to 0.5 m high. Fl. yellow, Sep to Nov. White to yellow sand, brown sandy gravel, gravelly loam, laterite, granite, quartz. Undulating plains, low rises, valley floors.	Unlikely
<i>Lepidobolus spiralis</i>			P2	Rhizomatous, clumped or spreading perennial, herb (sedge-like), ca 0.5 m high, to 2 m wide. Fl. May to Sep. Yellow sand. Dry kwongan.	Unlikely
<i>Leucopogon rugulosus</i>			P1	No description available	Possible
<i>Leucopogon</i> sp. Bonnie Hill (K.R. Newbey 9831)			P1	Erect shrub, 0.2-0.5 m high. Fl. white, May. White/grey sand. Undulating sandplains.	Possible
<i>Leucopogon</i> sp. Ironcaps (N. Gibson & K. Brown 3070)			P3	Slender, open shrub, to 1 m high, to 0.6 m wide. Fl. white, Aug. Skeletal sand, yellow sandy loam, rocky loam, gravel, laterite, ironstone. Gentle lower slopes, flat uplands, hill tops.	Possible
<i>Leucopogon</i> sp. Lake Tay (W.R. Archer 2104138)			P1	No description available	Possible
<i>Leucopogon</i> sp. Varley (M. Hislop 3659)			P2	No description available	Possible
<i>Leucopogon</i> sp. Yellowdine (M. Hislop & F. Hort MH 3194)			P1	No description available	Possible
<i>Logania nanophylla</i>			P2	Low spreading shrub, 0.1-0.25 m high, to 0.5 m wide. Fl. white, Aug. White sand, pebbly calcareous sandy clay. Sand dunes.	Unlikely
<i>Marianthus aquilonaris</i>		CR		No description available	Known to occur
<i>Melaleuca agathosmoides</i>			P1	Spreading shrub, 0.5-2 m high. Fl. white-cream, Sep to Oct. Gravelly red clay loam. Hills.	Possible
<i>Melaleuca coccinea</i>			P3	Much branched shrub, 1.5-2.6 m high, leaf blade elliptic to ovate, 1.5-2.2 times as long as wide. Fl. red, Sep to Nov or Jan. Sandy loam over granite. Granite outcrops, sandplain, river valleys.	Unlikely
<i>Melaleuca ochroma</i>			P3	No description available	Possible

Taxon	EPBC Act	BC Act	DBCA Priority Rating	Description (WAHERB, 2019)	Likelihood of Occurrence
<i>Microcybe pauciflora</i> subsp. <i>grandis</i>			P1	Shrub, to 0.6 m high, leaves 14-16 mm long, petals sparsely stellate-hairy. Fl. yellow. Clay-loam or loam.	Possible
<i>Microcybe</i> sp. Windy Hill (G.F. Craig 6583)			P3	No description available	Known to occur
<i>Micromyrtus elobata</i> subsp. <i>scopula</i>			P3	Erect shrub, 0.1-0.4(-1) m high. Deep aeolian sand, grey or white sand, white sandy clay. Undulating plains, dunes, hill crests.	Unlikely
<i>Micromyrtus papillosa</i>			P1	Erect or low, spreading shrub, 0.4-1.2 m high. Fl. white, Apr or Aug to Oct. Sandy or clay soils, ironstone, granite. Rocky sites, outcrops, on hills from base to summit.	Possible
<i>Microseris walteri</i>			P3	No description available	Possible
<i>Mirbelia densiflora</i>			P3	Erect or straggling shrub, 0.2-1 m high. Fl. yellow-orange, Oct or Jan. Stony loam, loamy sand. Small ridges, breakaways, undulating plains.	Unlikely
<i>Myriophyllum petraeum</i>			P4	Aquatic annual, herb, stems 0.15-0.3 m long. Fl. white, Aug to Dec. Strictly confined to ephemeral rock pools on granite outcrops.	Unlikely
<i>Newcastelia insignis</i>			P2	Much-branched shrub, 0.3-0.9(-1.5) m high. Fl. yellow-white, Sep to Nov. Red or yellow sandy soils.	Unlikely
<i>Notisia intonsa</i>			P3	No description available	Possible
<i>Olearia laciniifolia</i>			P2	Erect, few-stemmed shrub, 0.6-1.2 m high. Fl. blue/purple & white/yellow, May to Sep. White sand. Around playa lakes.	Possible
<i>Olearia newbeyi</i>			P1	No description available	Unlikely
<i>Opercularia hirsuta</i>			P2	Perennial, herb or shrub, 0.2-0.7 m high. Sandy soils over granite or quartzite.	Unlikely
<i>Orianthera exilis</i>			P2	No description available	Possible
<i>Oxymyrrhine plicata</i>			P3	No description available	Possible
<i>Persoonia baeckeoides</i>			P1	Erect, spreading shrub, 0.5-1.5 m high. Fl. green-yellow, Nov to Dec. Gravelly sand, laterite, sandy clay over sandstone. Undulating plains.	Unlikely
<i>Persoonia cymbifolia</i>			P3	Erect, spreading shrub, 0.2-0.6(-1) m high. Fl. yellow, Dec or Jan. Sandy soils. On flats or in rock crevices.	Unlikely
<i>Persoonia scabra</i>			P3	Erect, spreading, lignotuberous shrub, 0.3-0.9 m high. Fl. yellow, Nov to Dec or Jan. White sand or sandy loam.	Unlikely
<i>Philotheca apiculata</i>			P1	Erect shrub, 0.5-1.5 m high. Fl. white-pink, Aug to Nov. Stony clay loam. Rocky outcrops, hillsides.	Possible

Taxon	EPBC Act	BC Act	DBCA Priority Rating	Description (WAHERB, 2019)	Likelihood of Occurrence
<i>Phlegmatospermum eremaeum</i>			P3	Prostrate to spreading annual, herb, 0.02-0.1(-0.2) m high. Fl. white-cream, Jun or Aug to Oct. Stony loam.	Possible
<i>Pityrodia chrysocalyx</i>			P3	Erect, branched shrub, 0.3-0.75(-1) m high. Fl. white, Aug to Oct. Sandy soils.	Possible
<i>Pityrodia scabra</i> subsp. <i>dendrotricha</i>			P3	No description available	Possible
<i>Pultenaea daena</i>			P3	Dense, prostrate, domed shrub, to 0.07 m high. Fl. yellow, Mar. White to yellow sand or sandy loam, sandy or loamy clay, gravel, limestone, dolomite, laterite. Gently undulating plains, adjacent to salt lakes, in disturbed areas.	Possible
<i>Ricinocarpus trichophorus</i>	EN	VU		Erect, openly branching shrub, 0.3-1 m high. Fl. white, May or Aug to Sep. Sandy clay, loam. Breakaways, among sandstone rocks.	Unlikely
<i>Rinzia rubra</i>			P2	Spreading shrub, 0.25-0.7 m high, to 1 m wide. Fl. white, Aug or Nov. Sandy soils. Undulating plains.	Possible
<i>Rinzia torquata</i>			P3	No description available	Possible
<i>Roycea pycnophylloides</i>	EN	VU		Perennial, herb, forming densely branched, silvery mats to 1 m wide. Fl. Sep. Sandy soils, clay. Saline flats.	Possible
<i>Scaevola tortuosa</i>			P1	Ascending perennial, herb, 0.1-0.2 m high. Fl. blue-purple/pink, Oct. Sandy clay. Margins of salt lakes.	Possible
<i>Seringia adenogyna</i>			P3	No description available	Possible
<i>Stackhousia stratfordiae</i>			P1	No description available	Unlikely
<i>Stenanthemum bremerense</i>			P4	Erect or low and spreading shrub, (0.2-) 0.3-0.6(-1.4) m high. Orange-brown sandy loam, orange-red gravelly loam, skeletal red loam, laterite, ironstone. Top or sides of outcrops and breakaways.	Known to occur
<i>Stylidium pulviniforme</i>			P3	Caespitose perennial, herb, 0.01-0.05 m high, forming dense flat-topped cushions. Fl. white, Sep to Nov. White sand. Winter-wet areas.	Known to occur
<i>Stylidium sejunctum</i>			P3	Caespitose perennial, herb, 0.25-0.45 m high, Leaves tufted, linear to narrowly oblanceolate, 10-30 cm long, 0.8-4 mm wide, apex acute to mucronate, margin involute, glabrous to scabrous. Membraneous scale leaves present at base of mature leaves. Scape glandular throughout. Inflorescence paniculate. Fl. white/pink-purple, Sep to Nov. Clayey sand or loam, laterite.	Possible

Taxon	EPBC Act	BC Act	DBCA Priority Rating	Description (WAHERB, 2019)	Likelihood of Occurrence
				Outcrops, upper slopes, breakaways. Mallee and Allocasuarina shrubland.	
<i>Tecticornia entrichoma</i>			P4	Decumbent shrub, 0.05-0.3 m high. Clay, clayey sand. Margins of slightly brackish lakes.	Possible
<i>Teucrium diabolicum</i>			P3	Compact, dwarf shrub, 0.1 m high, to 0.1 m wide. Fl. white, Apr. Hills, road verges.	Known to occur
<i>Verticordia sieberi</i> var. <i>pachyphylla</i>			P1	Shrub, 0.25-0.6 m high. Fl. pink-cream-white, Oct or Jan. Sand. Edges of salt lakes.	Possible
<i>Verticordia</i> sp. Dundas (C.A. Gardner 2848)			P1	No description available	Possible

4.3 Groundwater Dependence Assessment

Results of the BoM *Atlas of Groundwater Dependent Ecosystems* (BoM, 2017b) database, indicate the survey area has potential to include five terrestrial groundwater dependent ecosystems. No aquatic groundwater dependent ecosystems were identified on the database as potentially occurring within the survey area. A description of these potential GDEs listed on the database within the survey area is provided in Table 7 and shown in Figure 12.

Table 7: Groundwater Dependent Ecosystems within the survey area

Ecosystem Description	Groundwater Interaction Potential
Medium woodland; redwood (<i>Eucalyptus transcontinentalis</i>) & merritt (<i>E. flocktoniae</i>)	Low potential
Medium woodland; morrell & Dundas blackbutt (<i>E. dundasii</i>)	Low potential
Medium woodland; salmon gum	Moderate potential
Shrublands; Acacia, Casuarina & Melaleuca thicket	Moderate potential
Bare areas; salt lakes	High potential

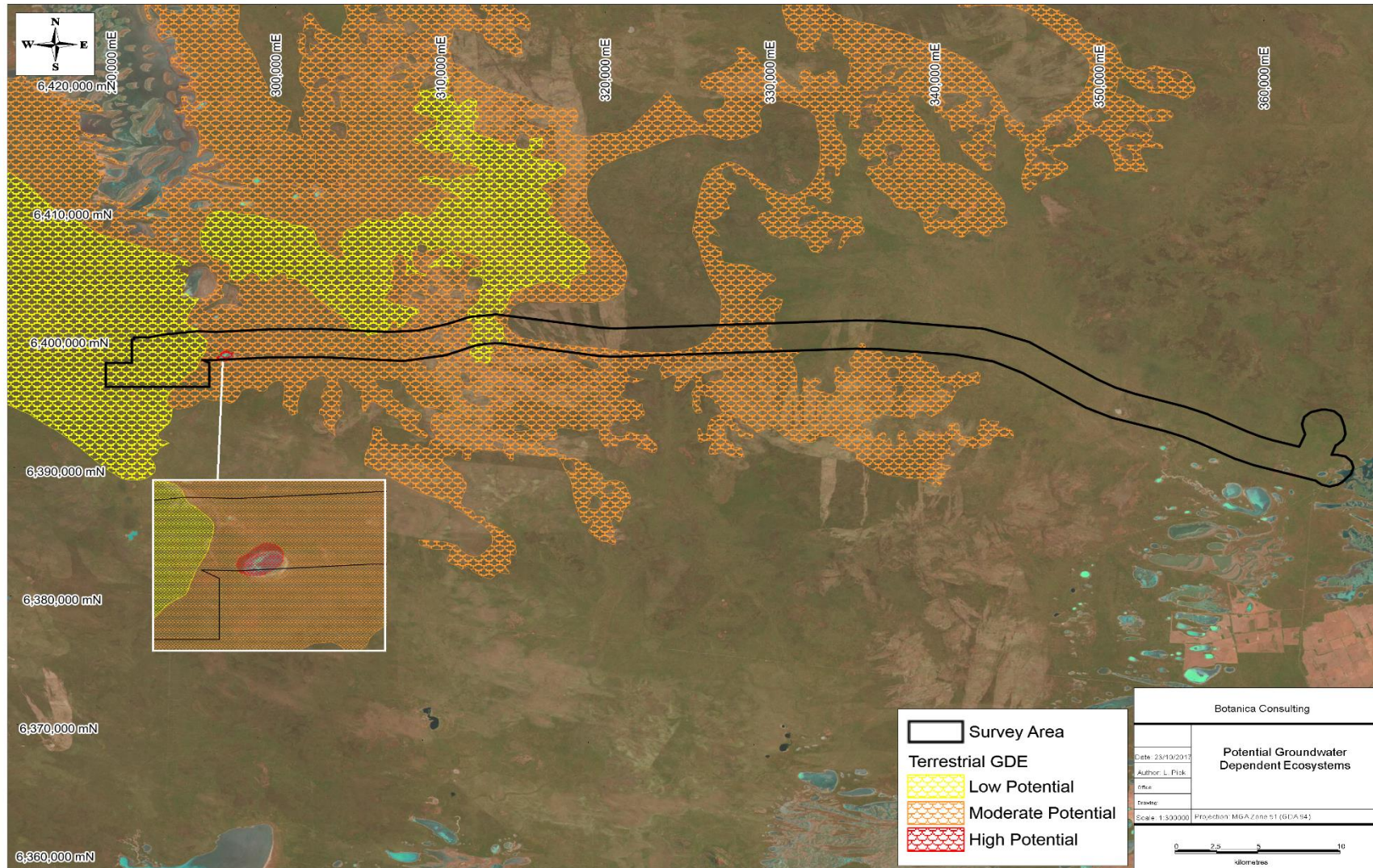


Figure 12: Potential for Groundwater Dependent Ecosystems within the survey area²

² Ecosystem extents shown in the maps do not necessarily show the spatial extent of groundwater use. Rather, the ecosystem polygons should be interpreted as showing the area within which groundwater interaction may be occurring (Australian Government, 2012).

Field Assessment

4.4 Floristic Communities

Fourteen floristic communities were identified within the survey area. These communities were located within five different landform types and comprised of five major vegetation groups, which were represented by a total of 58 Families, 162 Genera and 411 Taxa (Appendix 7). A map showing the floristic communities present in the survey area is located in Appendix 5 and a summary of communities is presented in Table 8.

Table 8: Summary of floristic communities within the survey area

Landform	NVIS Vegetation Group	Floristic Community ³	Vegetation Code	Area (ha)	Area (%)
Closed Depression	Chenopod Shrublands, Samphire Shrublands and Forblands (MVG 22)	Low samphire shrubland of <i>Tecticornia indica</i> subsp. <i>biden</i> s over low open forland of <i>Disphyma crassifolium</i> on playa	CD-CSSSF1	67	0.4
Clay-Loam Plain	Eucalypt Woodlands (MVG 5)	Low open woodland of <i>Eucalyptus salmonophloia</i> over mixed shrubs on clay-loam plain	CLP-EW1	10022 ⁴	53.4
	Mallee Woodlands and Shrublands (MVG 14)	Mid mallee shrubland of <i>Eucalyptus</i> spp. over mid shrubland of <i>Melaleuca pauperiflora</i> and mixed low shrubland on clay-loam plain	CLP-MWS1	1975	10.5
		Mid mallee woodland of <i>Eucalyptus</i> spp. over mixed low shrubland/ heathland on clay-loam plain	CLP-MWS2	2561	13.6
Granite Outcrop	Heathlands (MVG 18)	Heathland of <i>Thryptomene</i> spp. over sparse tussock grassland of <i>Neurachne alopecuroidea</i> on granite outcrop	G-H1	265	1.4
Hillslope	Eucalypt Woodlands (MVG 5)	Regrowth of low open forest of <i>Eucalyptus</i> sp. (Sterile) on hillslope	HS-EW1	15	0.1
	Mallee Woodlands and Shrublands (MVG 14)	Regrowth mid open mallee woodland of <i>Eucalyptus livida</i> over mid open shrubland of <i>Hakea pendens</i> and open low shrubland of <i>Goodia medicaginea</i> on hillslope	HS-MWS1	150	0.8
		Regrowth low open mallee shrubland of <i>Eucalyptus</i> spp. over low shrubland of <i>Acacia</i> spp. and open tussock grassland of <i>Schoenus breviculmis</i> on hillslope	HS-MWS2	16	0.1

³ Descriptions of floristic communities are based on the vegetation structure at the time of survey (2014-2015 and 2017). Vegetation structure of regrowth vegetation types is subject to change with continued recovery from fire.

⁴ 5381 ha comprised of mature woodland. Remaining area comprised of regrowth.

Landform	NVIS Vegetation Group	Floristic Community ³	Vegetation Code	Area (ha)	Area (%)
		Mid open mallee woodland of <i>Eucalyptus livida</i> over heathland of <i>Allocasuarina/ Hakea/ Melaleuca</i> and open low sedge of <i>Lepidosperma sanguinolentum</i> on hillslope	HS-MWS3	96	0.5
	Other Shrublands (MVG 17)	Regrowth mixed low shrubland on hillslope	HS-OS1	412	2.2
Sand-Loam Plain	Eucalypt Woodlands (MVG 5)	Low woodland of <i>Eucalyptus salicola</i> over low open shrubland of <i>Phebalium filifolium</i> and low open sedgeland of <i>Gahnia ancistrocarpa</i> on sand-loam plain	SLP-EW1	1519	8.1
	Mallee Woodlands and Shrublands (MVG 14)	Mid sparse mallee shrubland of <i>Eucalyptus eremophila</i> over heathland of <i>Melaleuca</i> spp. on sand-loam plain	SLP-MWS1	1436	7.7
		Regrowth mid sparse mallee shrubland of <i>Eucalyptus</i> spp. over low open shrubland of <i>Acacia / Grevillea</i> spp. and open hummock grassland of <i>Triodia scariosa</i> on sand-loam plain	SLP-MWS2	67	0.4
	Other Shrublands (MVG 17)	Regrowth low open woodland of <i>Codonocarpus cotinifolius</i> over mid shrubland of <i>Acacia/ Melaleuca</i> spp. and open tussock grassland of <i>Schoenus breviculmis</i> on sand-loam plain	SLP-OS1	27	0.1
TOTAL				18770	100

Closed Depression: Chenopod Shrublands, Samphire Shrublands and Forblands

4.4.1 Low samphire shrubland of *Tecticornia indica* subsp. *bidens* over low open forbland of *Disphyma crassifolium* on playa (CD-CSSSF1)

The total flora recorded within this community was represented by a total of 9 Families, 20 Genera and 28 Taxa (Plate 1). No Threatened Flora taxa or Priority Flora taxa were identified within this community. Dominant taxa from the vegetation assemblage are shown in Table 9. According to the NVIS, this community is best represented by the MVG22- Chenopod Shrublands, Samphire Shrublands and Forblands (DotEE, 2017b).

Table 9: Vegetation assemblage for Low samphire shrubland of *Tecticornia indica* subsp. *bidens* over low open forbland of *Disphyma crassifolium* on playa

Life Form/Height Class	Canopy Cover	Dominant Taxa
Samphire Shrub <0.5m	30-70%	<i>Tecticornia indica</i> subsp. <i>bidens</i>
Forbs <0.5m	10-30%	<i>Disphyma crassifolium</i>



Plate 1: Low samphire shrubland of *Tecticornia indica* subsp. *bidens* over low open forbland of *Disphyma crassifolium* on playa

Clay-Loam Plain: Eucalypt Woodlands

4.4.2 Low open woodland of *Eucalyptus salmonophloia* over mixed shrubs on clay-loam plain (CLP-EW1)

The total flora recorded within this vegetation type was represented by a total of 38 Families, 98 Genera and 198 Taxa (Plate 2). No Threatened Flora taxa were identified within this community. Seven Priority Flora taxa were recorded within this community; *Stenanthemum bremerense* (P4), *Hakea pendens* (P3), *Eucalyptus rhomboidea* (P4), *Eucalyptus pterocarpa* (P3), *Acacia hystrix* subsp. *continua* (P1), *Acacia mutabilis* subsp. *stipulifera* (P3) and *Teucrium diabolicum* (P3). Dominant taxa from the vegetation assemblage are shown in Table 10. According to the NVIS, this community is best represented by the MVG5- Eucalypt Woodlands (DotEE, 2017b).

Table 10: Vegetation assemblage for Low open woodland of *Eucalyptus salmonophloia* over mixed shrubs on clay-loam plain

Life Form/Height Class	Canopy Cover	Dominant Taxa
Tree <10m	5-10%	<i>Eucalyptus salmonophloia</i>
Shrub 1-2m	10-30%	<i>Dodonaea stenozyga</i> <i>Exocarpos aphyllus</i> <i>Santalum acuminatum</i> <i>Scaevola spinescens</i>
Shrub <1m	10-30%	<i>Acacia merrallii</i> <i>Acacia poliochroa</i> <i>Eremophila caerulea</i> subsp. <i>caerulea</i> <i>Melaleuca calyptroides</i> <i>Westringia cephalantha</i>



Plate 2: Low open woodland of *Eucalyptus salmonophloia* over mixed shrubs on clay-loam plain

Approximately 4641 ha of this community (~46% of the total extent within the survey area) has been disturbed by fire and comprised of regrowth vegetation (Plate 3; Appendix 5).



Plate 3: Regrowth *Eucalyptus salmonophloia* over mixed shrubs on clay-loam plain

Clay-Loam Plain: Mallee Woodlands and Shrublands

4.4.3 Mid mallee shrubland of *Eucalyptus* spp. over mid shrubland of *Melaleuca pauperiflora* and mixed low shrubland on clay-loam plain (CLP-MWS1)

The total flora recorded within this vegetation type was represented by a total of 27 Families, 62 Genera and 116 Taxa (Plate 4). No Threatened Flora taxa were identified within this community. Six Priority Flora taxa were identified within this vegetation community; *Stenanthemum bremerense* (P4), *Hakea pendens* (P3), *Eucalyptus rhomboidea* (P4), *Acacia mutabilis* subsp. *stipulifera* (P3), *Microcybe* sp. Windy Hill (G.F Craig 6583) (P3) and *Teucrium diabolicum* (P3). Dominant taxa from the vegetation assemblage are shown in Table 11. According to the NVIS, this community is best represented by the MVG14- Mallee Woodlands and Shrublands (DotEE, 2017b).

Table 11: Vegetation assemblage for Mid mallee shrubland of *Eucalyptus* spp. over mid shrubland of *Melaleuca pauperiflora* and mixed low shrubland on clay-loam plain

Life Form/Height Class	Canopy Cover	Dominant species present
Shrub Mallee 3-10m	30-70%	<i>Eucalyptus eremophila</i> <i>Eucalyptus diptera</i> <i>Eucalyptus urna</i>
Shrub 1-2m	30-70%	<i>Melaleuca pauperiflora</i>
Shrub <1m	10-30%	<i>Trymalium myrtillus</i> <i>Westringia rigida</i>



Plate 4: Mid mallee shrubland of *Eucalyptus* spp. over mid shrubland of *Melaleuca pauperiflora* and mixed low shrubland on clay-loam plain

4.4.4 Mid mallee woodland of *Eucalyptus* spp. over mixed low shrubland/ heathland on clay-loam plain (CLP-MWS2)

The total flora recorded within this vegetation type was represented by a total of 29 Families, 59 Genera and 120 Taxa (Plate 5). No Threatened Flora taxa were identified within this community. Two Priority Flora taxa were identified within this vegetation community; *Acacia mutabilis* subsp. *stipulifera* (P3) and *Brachyloma stenolobum* (P1). Dominant taxa from the vegetation assemblage are shown in Table 12. According to the NVIS, this community is best represented by the MVG14- Mallee Woodlands and Shrublands (DotEE, 2017b).

Table 12: Vegetation assemblage for Mid mallee woodland of *Eucalyptus* spp. over mixed low shrubland/ heathland on clay-loam plain

Life Form/Height Class	Canopy Cover	Dominant species present
Tree Mallee 3-10m	30-70%	<i>Eucalyptus cylindrocarpa</i> <i>Eucalyptus eremophila</i> <i>Eucalyptus urna</i>
Shrub 1-2m	30-70%	<i>Dodonaea bursariifolia</i> <i>Exocarpos sparteus</i> <i>Melaleuca lateriflora</i>
Heath Shrub 1-2m	30-70%	<i>Melaleuca hamata</i>
Shrub <1m	10-30%	<i>Cryptandra minutifolia</i> <i>Melaleuca calyptroides</i> <i>Westringia cephalantha</i>



Plate 5: Mid mallee woodland of *Eucalyptus* spp. over mixed low shrubland/ heathland on clay-loam plain

Granite Outcrop: Heathlands

4.4.5 Heathland of *Thryptomene* spp. over sparse tussock grassland of *Neurachne alopecuroidea* on granite outcrop (G-H1)

The total flora recorded within this vegetation type was represented by a total of 13 Families, 22 Genera and 24 Taxa (Plate 6). No Threatened Flora or Priority Flora taxon were identified within this community. Dominant taxa from the vegetation assemblage are shown in Table 13. According to the NVIS, this community is best represented by the MVG18- Heathlands (DotEE, 2017b).

Table 13: Vegetation assemblage for Heathland of *Thryptomene* spp. over sparse tussock grassland of *Neurachne alopecuroidea* on granite outcrop

Life Form/Height Class	Canopy Cover	Dominant Taxa
Heath Shrub >2m	30-70%	<i>Thryptomene australis</i>
Heath Shrub 1-2m	10-30%	<i>Thryptomene kochii</i>
Tussock grass <1m	5-10%	<i>Neurachne alopecuroidea</i>



Plate 6: Heathland of *Thryptomene* spp. over sparse tussock grassland of *Neurachne alopecuroidea* on granite outcrop

Hillslope: Eucalypt Woodlands

4.4.6 Regrowth of dense low forest of *Eucalyptus* sp. (Sterile) on hillslope (HS-EW1)

The total flora recorded within this vegetation type was represented by a total of 11 Families, 17 Genera and 22 Taxa (Plate 7). No Threatened Flora or Priority Flora taxa were identified within this vegetation community. Dominant taxa from the vegetation assemblage are shown in Table 14. According to the NVIS, this vegetation community is best represented by the MVG5-Eucalypt Woodlands (DotEE, 2017b).

Table 14: Vegetation assemblage for Regrowth of dense low forest of *Eucalyptus* sp. (Sterile) on hillslope

Life Form/Height Class	Canopy Cover	Dominant Taxa
Tree <3m	30-70%	<i>Eucalyptus</i> sp. (sterile)



Plate 7: Regrowth of dense low forest of *Eucalyptus* sp. (Sterile) on hillslope

Hillslope: Mallee Woodlands and Shrublands

4.4.7 Regrowth mid open mallee woodland of *Eucalyptus livida* over mid open shrubland of *Hakea pendens* and open low shrubland of *Goodia medicaginea* on hillslope (HS-MWS1)

The total flora recorded within this vegetation type was represented by a total of 35 Families, 69 Genera and 89 Taxa (Plate 8). One Threatened Flora taxon was identified within this vegetation community; *Marianthus aquilonaris*. Three Priority Flora taxa were identified within this vegetation community; *Stenanthemum bremerense* (P4), *Hakea pendens* (P3) and *Eucalyptus rhomboidea* (P4). Dominant taxa from the vegetation assemblage are shown in Table 15. According to the NVIS, this vegetation community is best represented by the MVG14-Mallee Woodlands and Shrublands (DotEE, 2017b).

Table 15: Vegetation assemblage for Regrowth mid open mallee woodland of *Eucalyptus livida* over mid open shrubland of *Hakea pendens* and open low shrubland of *Goodia medicaginea* on hillslope

Life Form/Height Class	Canopy Cover	Dominant Taxa
Tree Mallee 3-10m	10-30%	<i>Eucalyptus livida</i>
Shrub 1-2m	5-10%	<i>Hakea pendens</i> (P3)
Shrub <1m	5-10%	<i>Goodenia medicaginea</i>



Plate 8: Regrowth mid open mallee woodland of *Eucalyptus livida* over mid open shrubland of *Hakea pendens* and open low shrubland of *Goodia medicaginea* on hillslope

4.4.8 Regrowth low open mallee shrubland of *Eucalyptus* spp. over low shrubland of *Acacia* spp. and open tussock grassland of *Schoenus breviculmis* on hillslope (HS-MWS2)

The total flora recorded within this vegetation type was represented by a total of 11 Families, 13 Genera and 15 Taxa (Plate 9). No Threatened Flora or Priority Flora taxa were identified within this vegetation community. Dominant taxa from the vegetation assemblage are shown in Table 16. According to the NVIS, this vegetation community is best represented by the MVG14-Mallee Woodlands and Shrublands (DotEE, 2017b).

Table 16: Vegetation assemblage for Regrowth low open mallee shrubland of *Eucalyptus* spp. over low shrubland of *Acacia* spp. and open tussock grassland of *Schoenus breviculmis* on hillslope

Life Form/Height Class	Canopy Cover	Dominant Taxa
Shrub Mallee <3m	10-30%	<i>Eucalyptus</i> sp. (sterile)
Shrub <1m	10-30%	<i>Acacia assimilis</i> subsp. <i>assimilis</i> <i>Acacia yorkrakinensis</i> <i>Duboisia hopwoodii</i>
Tussock Grass <1m	10-30%	<i>Schoenus brevisetis</i>



Plate 9: Regrowth low open mallee shrubland of *Eucalyptus* spp. over low shrubland of *Acacia* spp. and open tussock grassland of *Schoenus breviculmis* on hillslope

4.4.9 Mid open mallee woodland of *Eucalyptus livida* over heathland of *Allocasuarina/ Hakea/ Melaleuca* and open low sedge of *Lepidosperma sanguinolentum* on hillslope (HS-MWS3)

The total flora recorded within this vegetation type was represented by a total of 15 Families, 25 Genera and 35 Taxa (Plate 10). No Threatened Flora were identified within this vegetation community. Three Priority Flora taxa were identified within this community; *Stenanthemum bremerense* (P4), *Eucalyptus rhomboidea* (P4) and *Teucrium diabolicum* (P3). Dominant taxa from the vegetation assemblage are shown in Table 17. According to the NVIS, this vegetation community is best represented by the MVG14-Mallee Woodlands and Shrublands (DotEE, 2017b).

Table 17: Vegetation assemblage for Mid open mallee woodland of *Eucalyptus livida* over heathland of *Allocasuarina/ Hakea/ Melaleuca* and open low sedge of *Lepidosperma sanguinolentum* on hillslope

Life Form/Height Class	Canopy Cover	Dominant Taxa
Shrub Mallee <3m	10-30%	<i>Eucalyptus livida</i>
Shrub 1-2m	10-30%	<i>Allocasuarina campestris</i> <i>Hakea francisiana</i> <i>Melaleuca hamata</i>
Sedge <0.5m	10-30%	<i>Lepidosperma sanguinolentum</i>



Plate 10: Mid open mallee woodland of *Eucalyptus livida* over heathland of *Allocasuarina/ Hakea/ Melaleuca* and open low sedge of *Lepidosperma sanguinolentum* on hillslope

Hillslope: Other Shrublands

4.4.10 Regrowth mixed low shrubland on hillslope (HS-OS1)

The total flora recorded within this vegetation type was represented by a total of 24 Families, 42 Genera and 55 Taxa (Plate 11). No Threatened Flora taxa were identified within this community. Four Priority Flora taxon was identified within this community; *Hakea pendens* (P3), *Stenanthemum bremerense* (P4), *Microcybe* sp. Windy Hill (G.F Craig 6583) (P3) and *Teucrium diabolicum* (P3). Dominant taxa from the vegetation assemblage are shown in Table 18. According to the NVIS, this community is best represented by the MVG17- Other Shrublands (DotEE, 2017b).

Table 18: Vegetation assemblage for Regrowth mixed low shrubland on hillslope

Life Form/Height Class	Canopy Cover	Dominant species present
Shrub 1-2m	30-70%	<i>Anthocercis anisantha</i> subsp. <i>anisantha</i> <i>Acacia poliochroa</i> <i>Alyogyne hakeifolia</i> <i>Dodonaea stenozyga</i>



Plate 11: Regrowth mixed low shrubland on hillslope

Sand-Loam Plain: Eucalypt Woodlands

4.4.11 Low woodland of *Eucalyptus salicola* over low open shrubland of *Phebalium filifolium* and low open sedgeland of *Gahnia ancistrocarpa* on sand-loam plain (SLP-EW1)

The total flora recorded within this vegetation type was represented by a total of 26 Families, 53 Genera and 79 Taxa (Plate 12). No Threatened Flora or Priority Flora taxa were identified within this community. Dominant taxa from the vegetation assemblage are shown in Table 19. According to the NVIS, this community is best represented by the MVG5- Eucalypt Woodland (DotEE, 2017b).

Table 19: Vegetation assemblage for Low woodland of *Eucalyptus salicola* over low open shrubland of *Phebalium filifolium* and low open sedgeland of *Gahnia ancistrocarpa* on sand-loam plain

Life Form/Height Class	Canopy Cover	Dominant species present
Tree <10m	10-30%	<i>Eucalyptus salicola</i>
Shrub <1m	10-30%	<i>Phebalium filifolium</i>
Sedge <0.5m	10-30%	<i>Gahnia ancistrocarpa</i>



Plate 12: Low woodland of *Eucalyptus salicola* over low open shrubland of *Phebalium filifolium* and low open sedgeland of *Gahnia ancistrocarpa* on sand-loam plain

Sand-Loam Plain: Mallee Woodlands and Shrublands

4.4.12 Mid sparse mallee shrubland of *Eucalyptus eremophila* over heathland of *Melaleuca* spp. on sand-loam plain (SLP-MWS1)

The total flora recorded within this vegetation type was represented by a total of 21 Families, 48 Genera and 98 Taxa (Plate 13). No Threatened Flora taxa were identified within this community. Two Priority Flora taxa were identified within this community; *Acacia mutabilis* subsp. *stipulifera* (P3) and *Bossiaea flexuosa* (P3). Dominant taxa from the vegetation assemblage are shown in Table 20. According to the NVIS, this community is best represented by the MVG14- Mallee Woodlands and Shrublands (DotEE, 2017b).

Table 20: Vegetation assemblage for Mid sparse mallee shrubland of *Eucalyptus eremophila* over heathland of *Melaleuca* spp. on sand-loam plain

Life Form/Height Class	Canopy Cover	Dominant species present
Shrub Mallee <3m	5-10%	<i>Eucalyptus eremophila</i> <i>Eucalyptus grossa</i>
Heath Shrub 1-2m	30-70%	<i>Acacia fragilis</i> <i>Melaleuca hamata</i>
Heath Shrub <1m	10-30%	<i>Melaleuca cordata</i>
Sedge <0.5m	10-30%	<i>Lepidosperma sanguinolentum</i>



Plate 13: Mid sparse mallee shrubland of *Eucalyptus eremophila* over heathland of *Melaleuca* spp. on sand-loam plain

4.4.13 Regrowth mid sparse mallee shrubland of *Eucalyptus* spp. over low open shrubland of *Acacia* / *Grevillea* spp. and open hummock grassland of *Triodia scariosa* on sand-loam plain (SLP-MWS2)

The total flora recorded within this vegetation type was represented by a total of 13 Families, 18 Genera and 24 Taxa (Plate 14). No Threatened Flora taxa were identified within this community. One Priority Flora taxon was identified within this community; *Acacia mutabilis* subsp. *stipulifera* (P3). Dominant taxa from the vegetation assemblage are shown in Table 23. According to the NVIS, this community is best represented by the MVG14- Mallee Woodlands and Shrublands (DotEE, 2017b).

Table 21: Vegetation assemblage for Regrowth mid sparse mallee shrubland of *Eucalyptus* spp. over low open shrubland of *Acacia* / *Grevillea* spp. and open hummock grassland of *Triodia scariosa* on sand-loam plain

Life Form/Height Class	Canopy Cover	Dominant species present
Shrub Mallee <3m	5-10%	<i>Eucalyptus</i> sp. (sterile)
Shrub <1m	10-30%	<i>Acacia acanthoclada</i> <i>Grevillea huegelii</i>
Hummock Grass <0.5m	10-30%	<i>Triodia scariosa</i>



Plate 14: Regrowth mid sparse mallee shrubland of *Eucalyptus* spp. over low open shrubland of *Acacia* / *Grevillea* spp. and open hummock grassland of *Triodia scariosa* on sand-loam plain

Sand-Loam Plain: Other Shrublands

4.4.14 Regrowth low open woodland of *Codonocarpus cotinifolius* over mid shrubland of *Acacia/ Melaleuca* spp. and open tussock grassland of *Schoenus breviculmis* on sand-loam plain (SLP-OS1)

The total flora recorded within this vegetation type was represented by a total of 10 Families, 15 Genera and 18 Taxa (Plate 15). No Threatened Flora taxa were identified within this community. One Priority Flora taxon was identified within this community; *Teucrium diabolicum* (P3). Dominant taxa from the vegetation assemblage are shown in Table 22. According to the NVIS, this community is best represented by the MVG17- Other Shrublands (DotEE, 2017b).

Table 22: Regrowth low open woodland of *Codonocarpus cotinifolius* over mid shrubland of *Acacia/ Melaleuca* spp. and open tussock grassland of *Schoenus breviculmis* on sand-loam plain

Life Form/Height Class	Canopy Cover	Dominant Taxa
Tree <3m	5-10%	<i>Codonocarpus cotinifolius</i>
Shrub <1m	10-30%	<i>Acacia</i> sp. (sterile) <i>Melaleuca hamata</i>
Tussock Grass <0.5m	10-30%	<i>Schoenus brevisetis</i>



Plate 15: Regrowth low open woodland of *Codonocarpus cotinifolius* over mid shrubland of *Acacia/ Melaleuca* spp. and open tussock grassland of *Schoenus breviculmis* on sand-loam plain

4.5 Vegetation Condition

Based on the vegetation condition rating scale adapted from Keighery, 1994 and Trudgen, 1988 (Appendix 8), eight communities were rated as 'good' and the remaining seven communities had a vegetation condition rating of 'very good' (Table 23). A map of the vegetation condition within the survey area is provided in Figure 13.

'Good' condition depicts that vegetation structure has been significantly altered by very obvious signs of multiple disturbances, however it retains its basic vegetation structure or has ability to regenerate it. Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.

'Very Good' condition depicts that vegetation structure has been altered by obvious signs of disturbance, caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.

The survey area has been subjected to a major fire in 2010 (Figure 14), with some areas subjected to multiple successional fires in 2010 (not available on Landgate database). In February 2015, the area was again subjected to fire (observed by Audalia staff in the area) however this fire has not been recorded on the Landgate database. In 2019, fires occurred directly west of the survey area within the Honman Ridge area. Vegetation within the survey area and surrounding region is in various stages of regrowth.

Table 23: Vegetation Condition Rating of the survey area

Landform	NVIS Vegetation Group	Floristic Community	Vegetation Code	Vegetation Condition
Closed Depression	Chenopod Shrublands, Samphire Shrublands and Forblands (MVG 22)	Low samphire shrubland of <i>Tecticornia indica</i> subsp. <i>bidens</i> over low open forbland of <i>Disphyma crassifolium</i> on playa	CD-CSSSF1	Very Good
	N/A	Playa (no vegetation)	PLAYA	N/A
Clay-Loam Plain	Eucalypt Woodlands (MVG 5)	Low open woodland of <i>Eucalyptus salmonophloia</i> over mixed shrubs on clay-loam plain	CLP-EW1	Good
	Mallee Woodlands and Shrublands (MVG 14)	Mid mallee shrubland of <i>Eucalyptus</i> spp. over mid shrubland of <i>Melaleuca pauperiflora</i> and mixed low shrubland on clay-loam plain	CLP-MWS1	Very Good
		Mid mallee woodland of <i>Eucalyptus</i> spp. over mixed low shrubland/ heathland on clay-loam plain	CLP-MWS2	Very Good
Granite Outcrop	Heathlands (MVG 18)	Heathland of <i>Thryptomene</i> spp. over sparse tussock grassland of <i>Neurachne alopecuroidea</i> on granite outcrop	G-H1	Very Good

Landform	NVIS Vegetation Group	Floristic Community	Vegetation Code	Vegetation Condition
Hillslope	Eucalypt Woodlands (MVG 5)	Regrowth of low open forest of <i>Eucalyptus</i> sp. (Sterile) on hillslope	HS-EW1	Good
	Mallee Woodlands and Shrublands (MVG 14)	Regrowth mid open mallee woodland of <i>Eucalyptus livida</i> over mid open shrubland of <i>Hakea pendens</i> and open low shrubland of <i>Goodia medicaginea</i> on hillslope	HS-MWS1	Good
		Regrowth low open mallee shrubland of <i>Eucalyptus</i> spp. over low shrubland of <i>Acacia</i> spp. and open tussock grassland of <i>Schoenus breviculmis</i> on hillslope	HS-MWS2	Good
		Mid open mallee woodland of <i>Eucalyptus livida</i> over heathland of <i>Allocasuarina/Hakea/Melaleuca</i> and open low sedge of <i>Lepidosperma sanguinolentum</i> on hillslope	HS-MWS3	Good
	Other Shrublands (MVG 17)	Regrowth mixed low shrubland on hillslope	HS-OS1	Good
Sand-Loam Plain	Eucalypt Woodlands (MVG 5)	Low woodland of <i>Eucalyptus salicola</i> over low open shrubland of <i>Phebalium filifolium</i> and low open sedgeland of <i>Gahnia ancistrocarpa</i> on sand-loam plain	SLP-EW1	Very Good
	Mallee Woodlands and Shrublands (MVG 14)	Mid sparse mallee shrubland of <i>Eucalyptus eremophila</i> over heathland of <i>Melaleuca</i> spp. on sand-loam plain	SLP-MWS1	Very Good
		Regrowth mid sparse mallee shrubland of <i>Eucalyptus</i> spp. over low open shrubland of <i>Acacia / Grevillea</i> spp. and open hummock grassland of <i>Triodia scariosa</i> on sand-loam plain	SLP-MWS2	Good
	Other Shrublands (MVG 17)	Regrowth low open woodland of <i>Codonocarpus cotinifolius</i> over mid shrubland of <i>Acacia/Melaleuca</i> spp. and open tussock grassland of <i>Schoenus breviculmis</i> on sand-loam plain	SLP-OS1	Good



Figure 13: Vegetation Condition Rating of the survey area

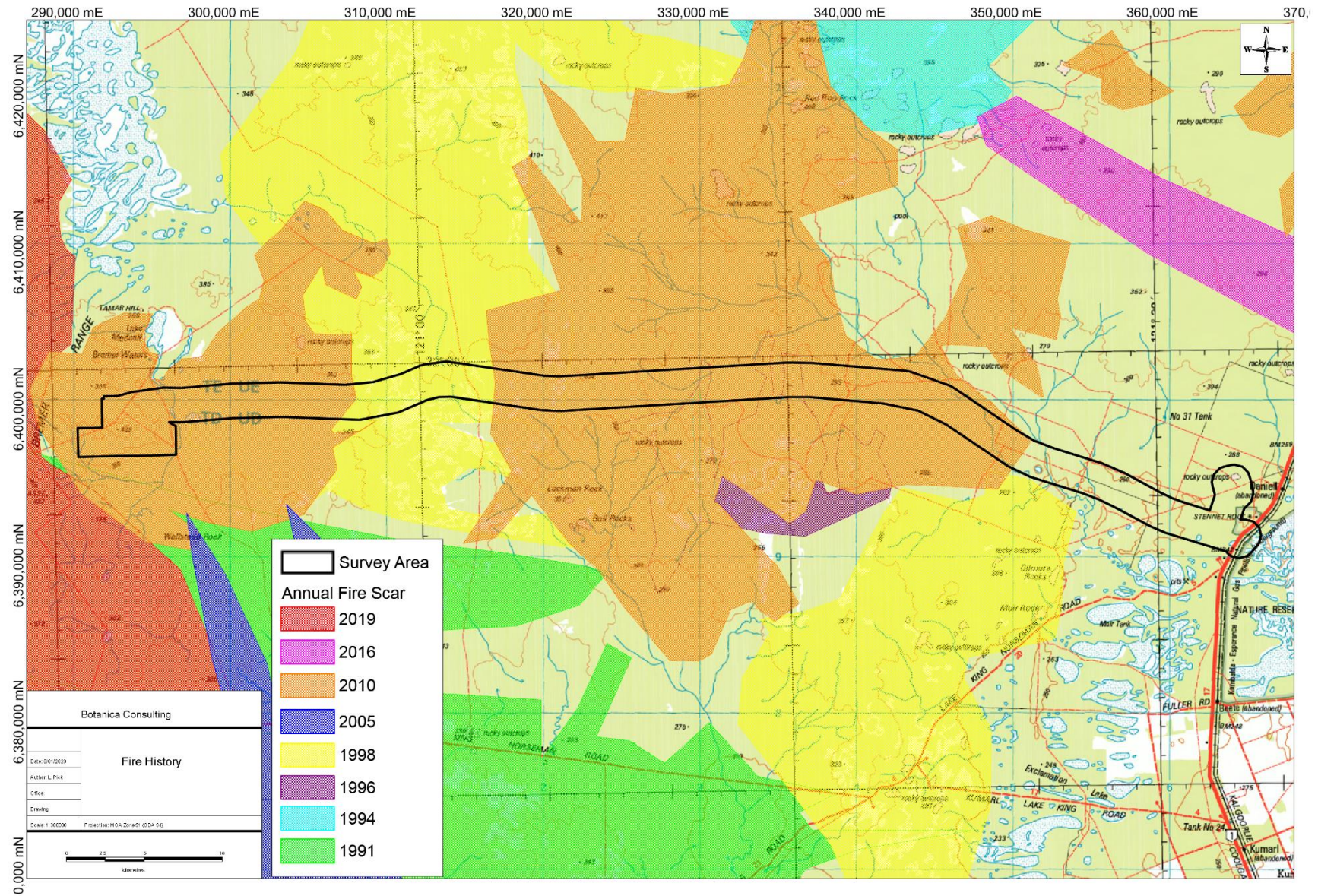





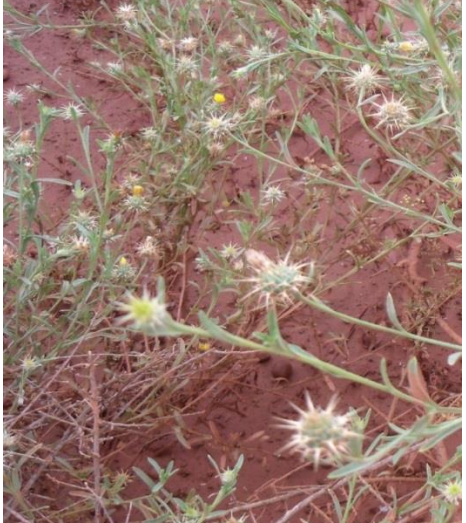

Figure 14: Map of fire history along the extent of the survey area obtained from Landgate fire watch database (Landgate, 2019)



4.6 Introduced Plant Species


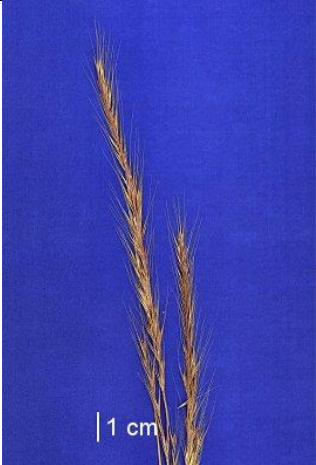
Nine introduced species were identified in the survey area (Table 24). According to the DPIRD, none of these taxa are listed as a Declared Plant under Section 22 of the *Biosecurity and Agriculture Management Act 2007* (BAM Act) (DPIRD, 2017).

Table 24: Introduced Flora identified within the survey area

Taxon	Declared Plant (BAM Act)	Weed of National Significance (DotEE, 2019)	Priority Weed listed by DBCA (DEC, 2013)	Description (WAHERB, 2019)	Image
<p><i>Asphodelus fistulosus</i> (Onion Weed)</p>	<p>No</p>	<p>No</p>	<p>No</p>	<p>This taxon is described as an annual or biennial, herb, which grows between 0.2-0.4 m high. It produces white flowers from June to October. This taxon occurs on sand, clay and calcareous soils. This taxon was identified within one floristic community; CLP-EW1.</p>	 <p><i>Asphodelus fistulosus</i> <small>Photos: M. Kcalley, S.J. Patrick, K.C. Richardson & K.R. Thiele</small></p>
<p><i>Bromus rubens</i> (Red brome)</p>	<p>No</p>	<p>No</p>	<p>No</p>	<p>This taxon is described as a tufted annual, grass-like or herb, that grows between 0.1-0.4m high. It produces green/red-purple flowers from August to October. It grows in sand, red-brown clay and calcareous loam. This taxon was identified within one floristic community; CLP-EW1.</p>	

Taxon	Declared Plant (BAM Act)	Weed of National Significance (DotEE, 2019)	Priority Weed listed by DBCA (DEC, 2013)	Description (WAHERB, 2019)	Image
<i>Carrichtera annua</i> (Ward's weed)	No	No	No	This taxon is described as an erect, annual herb that can grow between 0.05-0.4m high. It produces yellow flowers from September to November. It can be found in semi-arid regions. This taxon was identified within two floristic communities; CLP-EW1 and HS-OS1.	
<i>Centaurea melitensis</i> (Maltese cockspur)	No	No	No	This taxon is described as an erect annual or biennial herb that grows anywhere between 0.2 to 1m high. It produces yellow flowers from September to December or from January to March. It can be found along roadsides, cultivated areas or any other disturbed areas. This taxon was identified within two floristic communities; CLP-EW1 and HS-OS1.	
<i>Lysimachia arvensis</i> (Pimpernel)	No	No	No	No description is available for this taxon. This taxon was identified within one floristic community; CLP-EW1.	

Taxon	Declared Plant (BAM Act)	Weed of National Significance (DotEE, 2019)	Priority Weed listed by DBCA (DEC, 2013)	Description (WAHERB, 2019)	Image
<i>Pentameris airoides</i>	No	No	No	No description is available for this taxon. This taxon was identified within one floristic community; CLP-EW1.	
<i>Rostraria pumila</i> (Roughtail)	No	No	No	This taxon is described as a tufted annual, grass-like or herb, that grows between 0.05-0.2m high. It produces green flowers from July to October. It grows in grey, black or red sand, sandy clay, clay and limestone. It is a weed of roadsides, sand dunes and cliff slopes. This taxon was identified within one floristic community; CLP-EW1.	

Taxon	Declared Plant (BAM Act)	Weed of National Significance (DotEE, 2019)	Priority Weed listed by DBCA (DEC, 2013)	Description (WAHERB, 2019)	Image
<i>Sonchus oleraceus</i> (Common sowthistle)	No	No	No	<p>This taxon is described as an erect, annual herb that can grow to 1.5m high. It produces yellow flowers from January to December. It grows in variety of soils, and is a weed of waste places and disturbed ground. This taxon was identified within four floristic communities; CLP-EW1, CLP-MWS1, RH-OS1 and HS-EW1.</p>	
<i>Vulpia muralis</i> (Silver Grass)	No	No	No	<p>This taxon is described as a slender annual, grass-like or herb, that grows to 0.6m high. It produces flowers from August to December. This taxon was identified within one floristic community; CLP-EW1.</p>	

4.7 Floristic Composition of the Medcalf Vanadium Mining Project Quadrats

This analysis was used to determine the similarities or differences between vegetation types. Appendix 6 provides the dendrogram and ordination graph for all generated from the PATN statistical analysis. A list of the 127 quadrats and their respective vegetation communities are provided in Table 25 below. The PATN analysis produced a stress value of 0.2856.

Table 25: Vegetation communities with corresponding quadrats

Landform	NVIS Vegetation Group	Floristic Community	Vegetation Code	Quadrat
Closed Depression	Chenopod Shrublands, Samphire Shrublands and Forblands (MVG 22)	Low samphire shrubland of <i>Tecticornia indica</i> subsp. <i>bidens</i> over low open forbland of <i>Disphyma crassifolium</i> on playa	CD-CSSSF1	Q103, Q104, Q124
Clay-Loam Plain	Eucalypt Woodlands (MVG 5)	Low open woodland of <i>Eucalyptus salmonophloia</i> over mixed shrubs on clay-loam plain	CLP-EW1	Q2, Q3, Q4, Q6, Q8, Q9, Q11, Q15, Q24, Q27, Q28, Q32, Q35, Q39, Q66, Q78, Q83, Q84, Q85, Q88, Q89, Q92, Q95, Q96, Q99, Q100, Q102, Q110, Q113, Q113, Q144, Q115, Q116, Q118, Q119, Q121, Q122
	Mallee Woodlands and Shrublands (MVG 14)	Mid mallee shrubland of <i>Eucalyptus</i> spp. over mid shrubland of <i>Melaleuca pauperiflora</i> and mixed low shrubland on clay-loam plain	CLP-MWS1	Q7, Q10, Q12, Q18, Q19, Q20, Q29, Q30, Q31, Q34, Q37, Q38, Q40, Q41, Q69, Q74, Q75, Q77, Q79, Q80, Q81, Q86, Q87, Q90, Q91, Q106, Q109
		Mid mallee woodland of <i>Eucalyptus</i> spp. over mixed low shrubland/ heathland on clay-loam plain	CLP-MWS2	Q94, Q97, Q101, Q105, Q111, Q112
Granite Outcrop	Heathlands (MVG 18)	Heathland of <i>Thryptomene</i> spp. over sparse tussock grassland of <i>Neurachne alopecuroidea</i> on granite outcrop	G-H1	Q123, Q125, Q127
Hillslope	Eucalypt Woodlands (MVG 5)	Regrowth of low open forest of <i>Eucalyptus</i> sp. (Sterile) on hillslope	HS-EW1	Q54, Q59, Q61
	Mallee Woodlands and Shrublands (MVG 14)	Regrowth mid open mallee woodland of <i>Eucalyptus livida</i> over mid open shrubland of <i>Hakea pendens</i> and open low shrubland of <i>Goodia medicaginea</i> on hillslope	HS-MWS1	Q1, Q5, Q13, Q14, Q16, Q17, Q21, Q22, Q23, Q25, Q26, Q33, Q36, Q55, Q56, Q58, Q60, Q62
		Regrowth low open mallee shrubland of <i>Eucalyptus</i> spp. over low shrubland of <i>Acacia</i> spp. and open tussock grassland of <i>Schoenus brevicultmis</i> on hillslope	HS-MWS2	Q71, Q72

Landform	NVIS Vegetation Group	Floristic Community	Vegetation Code	Quadrat
		Mid open mallee woodland of <i>Eucalyptus livida</i> over heathland of <i>Allocasuarina/ Hakea/ Melaleuca</i> and open low sedge of <i>Lepidosperma sanguinolentum</i> on hillslope	HS-MWS3	Q63, Q64, Q65, Q67, Q68, Q70
	Other Shrublands (MVG 17)	Regrowth mixed low shrubland on hillslope	HS-OS1	Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q57
Sand-Loam Plain	Eucalypt Woodlands (MVG 5)	Low woodland of <i>Eucalyptus salicola</i> over low open shrubland of <i>Phebalium filifolium</i> and low open sedgeland of <i>Gahnia ancistrocarpa</i> on sand-loam plain	SLP-EW1	Q117, Q120, Q126
	Mallee Woodlands and Shrublands (MVG 14)	Mid sparse mallee shrubland of <i>Eucalyptus eremophila</i> over heathland of <i>Melaleuca</i> spp. on sand-loam plain	SLP-MWS1	Q93, Q98, Q107, Q108
		Regrowth mid sparse mallee shrubland of <i>Eucalyptus</i> spp. over low open shrubland of <i>Acacia / Grevillea</i> spp. and open hummock grassland of <i>Triodia scariosa</i> on sand-loam plain	SLP-MWS2	Q76, Q82
	Other Shrublands (MVG 17)	Regrowth low open woodland of <i>Codonocarpus cotinifolius</i> over mid shrubland of <i>Acacia/ Melaleuca</i> spp. and open tussock grassland of <i>Schoenus breviculmis</i> on sand-loam plain	SLP-OS1	Q73

Two 'supergroups' were identified in the PATN analysis:

1. Hillslopes (mallee woodland and shrubland), sand-loam plain (other shrubland/ eucalypt woodland/ mallee woodland and shrubland), granite outcrop (other shrubland) and closed depression (chenopod/ samphire shrubland), clay-loam plain (mallee woodland and shrubland).
2. Hillslopes (eucalypt woodland/ other shrubland), clay-loam plain (eucalypt woodland/ mallee woodland and shrubland), sand-loam plain (mallee woodland and shrubland).

The first supergroup was divided into eight floristic groups, comprising of quadrats from each of the five different landform types and major vegetation groups. The hillslopes communities (mallee woodland and shrubland), were divided into three groups, intermixed with quadrats from the clay-loam plain communities. The clay-loam plain communities were divided into four groups. The sand-loam plain (other shrubland/ eucalypt woodland/ mallee woodland and shrubland) communities were divided into four groups, also intermixed with quadrats from the clay-loam plain communities. The granite outcrop and closed depression community quadrats were grouped separately from all other quadrats.

The second group was divided into six floristic groups, comprising of quadrats from three different landform types (hillslopes, clay-loam plain and sand-loam plain) and three major vegetation groups (eucalypt woodland, other shrubland and mallee woodland and shrubland).

Based on the results of the PATN analysis, there was minimal heterogeneity in species composition across the survey area, with majority of vegetation types intermixed into floristic groups despite differences in both dominant stratum taxa and landform. The two super groups were highly mixed including quadrats from all the different landforms and major vegetation groups.

4.7.1 Species Richness and accumulation estimates

The Chaos 2 richness estimator provided an estimated species richness of 205 species in 127 sample sites (quadrats). Species richness recorded for the 117 quadrats surveyed was 221 species (including annuals) which indicates survey intensity was adequate.

A species accumulation curve was created to display the rate of species accumulation. The R^2 value (0.95) suggests that the data “fits” the species accumulation curve shown in Figure 15. The rate of species accumulation for the first 20 quadrats ranged from seven to three species per quadrat. The rate of species accumulation between 20-45 quadrats was two species per quadrat. Species accumulation reduced to ≤ 1 species per quadrat as quadrat number increased above 100. Botanica has determined that according to this data a sufficient number of quadrats were established in the survey area to adequately assess the floristic composition of the area.

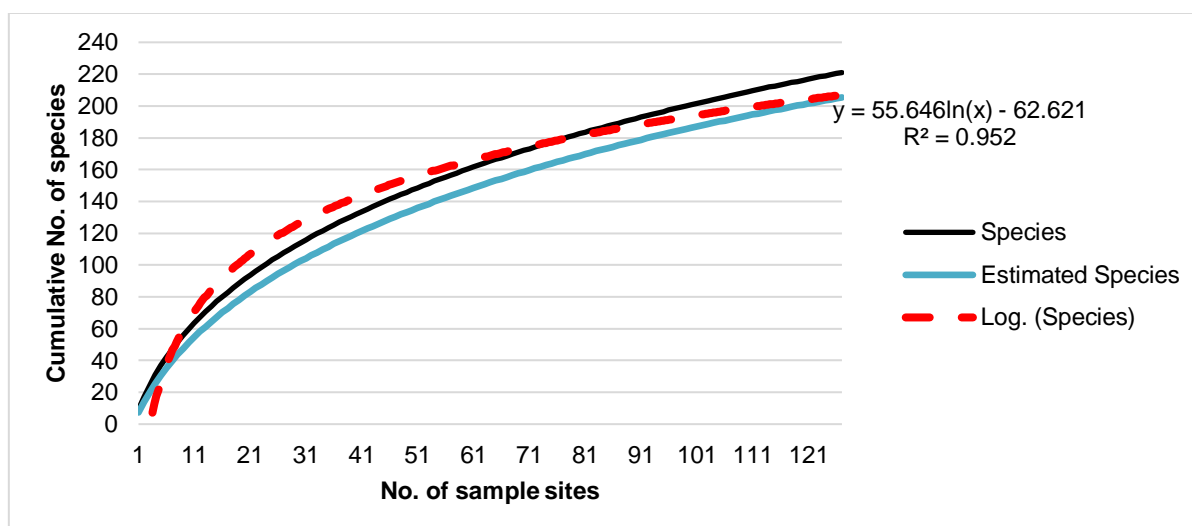


Figure 15: Species accumulation curve

4.7.2 Unidentified Taxa

A total of eight sterile taxa were identified during the survey, as listed in Table 26. An assessment on the potential for each sterile taxon to be a significant taxon was conducted based on review of potential flora listed on the NatureMap database search, the findings of the existing survey work conducted within the Bremer Range (Gibson and Lyons, 1998), species identified during surveys conducted by Botanica and the desktop assessment on the potential for conservation significant flora to occur within the survey area.

Table 26: Sterile Taxa recorded within the survey area

Taxon	Coordinate/ Locality	Associated Vegetation	Likelihood of being significant flora
<i>Allocasuarina</i> sp. sterile	Regrowth within the Mine Survey Area	HS-MWS1, HS-MWS2, HS-OS1	Low-Four <i>Allocasuarina</i> taxa potentially occurring within the local region/ previously recorded within the survey area none of which are significant.
<i>Tecticornia</i> sp. sterile	Single sterile recorded within the Haul Road Survey Area-Located in Eucalypt Woodland/ not associated with playa/ fringing vegetation 51 H 298940 6400214	CLP-EW1	Low-Eight <i>Tecticornia</i> taxa potentially occurring within the local region/ six identified during the survey, none of which are significant. Given this taxon was recorded within understorey vegetation of Salmon Gum woodland and not associated with playa vegetation, the likelihood of this sterile <i>Tecticornia</i> being significant is low.
<i>Dillwynia</i> sp. sterile	Single sterile recorded within the Haul Road Survey Area 51H 322397 6400387	SLP-MWS1	Low-One <i>Dillwynia</i> taxon potentially occurring within the local region, which is not significant
<i>Acacia</i> sp. sterile	Regrowth within the Mine Survey Area	CLP-MWS1, SLP-OS1	Low-Seven conservation significant <i>Acacia</i> possible to occur within survey area. Total of forty-three <i>Acacia</i> identified within the survey area, only one of which is conservation significant. Given the high proportion of <i>Acacia</i> identified, the likelihood of this sterile <i>Acacia</i> being significant is low
<i>Eucalyptus</i> sp. sterile mallee	Regrowth within the Mine Survey Area	HS-MWS3, SLP-MWS2, SLP-OS1	Low- Four conservation significant Mallees possible to occur within survey area. Twenty-four Mallee identified within the survey area. Given the high proportion of Mallee identified, the likelihood of this sterile Mallee being significant is low
<i>Eucalyptus</i> sp. sterile	Regrowth within the Mine Survey Area and Haul Road Survey Area 51 H 310842 6400384 51 H 298940 6400214 51 H 320536 6400903 51 H 329524 6400310	CLP-EW1, CLP-MWS1, CLP-MWS2, HS-EW1, HS-MWS1, HS-MWS2, HS-MWS3, HS-OS1, SLP-MWS1, SLP-MWS2, SLP-OS1	Low- Four conservation significant trees possible to occur within the survey area. Fourteen <i>Eucalypts</i> identified within the survey area, two of which are conservation significant. Given the high proportion of <i>Eucalypts</i> identified and the variety of habitats the sterile <i>Eucalypt</i> occurred in, the likelihood of this sterile <i>Eucalypt</i> being significant is low
<i>Melaleuca</i> sp. sterile	Regrowth within the Mine Survey Area 51 H 292866 6397429 51 H 293982 6398914 51 H 294201 6398699 51 H 294502 6398681 51 H 294900 6398659	CLP-EW1, CLP-MWS2, HS-OS1	Low-Specimen assessed by WAHERB taxonomist-may be <i>M. villosisepala</i> but not enough flowering material.

Taxon	Coordinate/ Locality	Associated Vegetation	Likelihood of being significant flora
	51 H 294547 6398362 51 H 293412 6399031 51 H 292089 6397584 51 H 298940 6400214		
<i>Caladenia</i> sp. sterile	Single sterile record within the Mine Survey Area	HS-MWS1	Low-Six <i>Caladenia</i> taxa potentially occurring within the local region, none of which are significant

4.8 Floristic Composition of the Medcalf Vanadium Mining Project and Bremer Range

This analysis was used to determine the similarities or differences between vegetation types of the MVM Project surveyed by Botanica and Bremer Range PEC floristic communities surveyed by Gibson and Lyons (1998). A summary of the floristic communities of the Bremer Range provided by Gibson & Lyons is provided in Section 4.1. A map of the Botanica and Gibson & Lyons quadrats are provided in Figure 16. Appendix 6 provides the dendrogram and ordination graph for all generated from the PATN statistical analysis. A list of the 127 Botanica quadrats and 64 Gibson and Lyons quadrats and their respective vegetation groups are provided in Table 27 below. The PATN analysis produced a stress value of 0.2833.

Table 27: Vegetation communities with corresponding quadrats (Botanica and Gibson & Lyons)

Landform	NVIS Vegetation Group	Vegetation Code	Botanica Quadrat	Gibson & Lyons Quadrat
Closed Depression	Chenopod Shrublands, Samphire Shrublands and Forblands (MVG 22)	CD-CSSSF	Q103, Q104, Q124	
Clay-Loam Plain	Eucalypt Woodlands (MVG 5)	CLP-EW	Q2, Q3, Q4, Q6, Q8, Q9, Q11, Q15, Q24, Q27, Q28, Q32, Q35, Q39, Q66, Q78, Q83, Q84, Q85, Q88, Q89, Q92, Q95, Q96, Q99, Q100, Q102, Q110, Q113, Q113, Q144, Q115, Q116, Q118, Q119, Q121, Q122	
		Community 2		436/06, bm04, cor01, cor03, cor04, cor06, day03, gor04, mg01, mg03, mg04, mg05, mg06, mhh01, nb04, nb05, rth03, rth04, th02, th03, th04, th05, th08, th09
	Community 4		bm06, day01, gor06, mhh05, nb01, nb02, th01	
	Mallee Woodlands and Shrublands (MVG 14)	CLP-MWS	Q7, Q10, Q12, Q18, Q19, Q20, Q29, Q30, Q31, Q34, Q37, Q38, Q40, Q41, Q69, Q74, Q75, Q77, Q79, Q80, Q81, Q86, Q87, Q90, Q91, Q106, Q109, Q94, Q97, Q101, Q105, Q111, Q112	
Granite Outcrop	Heathlands (MVG 18)	G-H	Q123, Q125, Q127	

Landform	NVIS Vegetation Group	Vegetation Code	Botanica Quadrat	Gibson & Lyons Quadrat
Hillslope	Eucalypt Woodlands (MVG 5)	HS-EW	Q54, Q59, Q61	
	Mallee Woodlands and Shrublands (MVG 14)	HS-MWS	Q1, Q5, Q13, Q14, Q16, Q17, Q21, Q22, Q23, Q25, Q26, Q33, Q36, Q55, Q56, Q58, Q60, Q62, Q71, Q72, Q63, Q64, Q65, Q67, Q68, Q70	
		Community 1		436/01, 436/03, 436/05, gor02, gor03, mg07, rth01
	Other Shrublands (MVG 17)	HS-OS	Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q57	
Lateritic Hillslopes	Mallee Woodlands and Shrublands (MVG 14)/ Casuarina Forests and Woodlands (MVG 8)	Community 5		436/02, 436/04, cor02, day02, hon02, hon05, mg02, mg08, nb03, rth02, th06, th07
Greenstone Hillslope	Mallee Woodlands and Shrublands (MVG 14)/ Casuarina Forests and Woodlands (MVG 8)	Community 6		mhh02, mhh04
Sand-Loam Plain	Eucalypt Woodlands (MVG 5)	SLP-EW	Q117, Q120, Q126	
		Community 3		bm01, bm02, bm03, bm05, cor05, gor01, gor05, hon01, hon03, hon04, hon06, mhh03
	Mallee Woodlands and Shrublands (MVG 14)	SLP-MWS	Q93, Q98, Q107, Q108, Q76, Q82	
	Other Shrublands (MVG 17)	SLP-OS	Q73	

Three 'supergroups' were identified in the PATN analysis:

1. Hillslopes/ Lateritic Hillslopes (Mallee woodland / Casuarina forest).
2. Hillslopes (Other shrubland), clay-loam plain (Mallee woodland / Eucalypt woodland).
3. Sand-Loam Plain (Mallee woodland / Eucalypt woodland), clay-loam plain (Mallee woodland / Eucalypt woodland)/ Closed Depression (Samphire shrubland), Granite outcrop (Heathland), Hillslopes/ Greenstone Hillslopes (Mallee woodland / Casuarina forest).

The first supergroup included one floristic group, comprising mostly of Mallee woodland and Casuarina forest quadrats from the hillslope/ lateritic hillslope landforms (five of the forty-four quadrats within this group were clay-loam plain quadrats). This group included Botanica hillslope quadrats (Mallee woodland) and Gibson & Lyons quadrats from Community 5-Lateritic Hillslope (Mallee woodland / Casuarina forests). This floristic group was mostly characterised by species group D. This floristic group had an average perennial species richness of eleven taxa per quadrat (ranged from four to eighteen taxa per quadrat).

The second supergroup was divided into three floristic groups, comprising of quadrats from two different landform types (hillslopes and clay-loam plain) and three major vegetation groups (Other shrublands, Eucalypt woodland and Mallee woodland). This group included Botanica hillslope/ clay-loam plain quadrats and Gibson & Lyons quadrats from Community 2 and 4 (Eucalypt woodland). The first floristic group comprised only of quadrats established by Botanica, majority of which comprised of Hillslope-Other shrubland vegetation. This floristic group was mostly characterised by species group B. This floristic group had an average perennial species richness of six taxa per quadrat (ranged from four to eleven taxa per quadrat). The remaining two floristic groups included clay-loam plain quadrats (Eucalypt woodland and Mallee woodland) surveyed by Botanica and Gibson & Lyons quadrats from Community 2 and 4-Clay loam plain (Eucalypt woodland). These three floristic groups were mostly characterised by species group B. These floristic groups both had an average perennial species richness of ten taxa per quadrat (ranged from two to twenty-one taxa per quadrat).

The third supergroup was divided into six floristic groups comprising of quadrats from all landform types and vegetation types. The first group was intermixed, including Botanica Mallee woodland quadrats from the sand-loam plain and clay-loam plain landforms and Gibson & Lyons quadrats from Community 1-Hillslope (Mallee woodland). This floristic group was mostly characterised by species group B and I and had an average perennial species richness of eleven taxa per quadrat (ranged from five to nineteen taxa per quadrat).

The granite outcrop and closed depression community quadrats surveyed by Botanica were grouped into individual groups, separate from all other quadrats. These floristic groups were mostly characterised by species group C and H respectively. These floristic groups both had an average perennial species richness of four taxa per quadrat (ranged from three to five taxa per quadrat).

The Sand-loam plain (Eucalypt woodland) quadrats surveyed by Botanica were also grouped separately. This floristic group was mostly characterised by species group A and B. This floristic groups had an average perennial species richness of nine taxa per quadrat (ranged from six to twelve taxa per quadrat).

The two Gibson & Lyons quadrats from Community 6 (Greenstone Hillslope) were grouped together in a separate group along with one quadrat from Community 5 (laterite hillslope). As specified in the Gibson and Lyons report, Community type 6 was only found on a greenstone ridge south east of Maggie Hays Hill. This floristic group was mostly characterised by species group F and had an average perennial species richness of ten taxa per quadrat (ranged from six to thirteen taxa per quadrat).

The final group included Gibson & Lyons quadrats only, mostly from Community 3 (sand-loam plain Eucalypt woodland) and Community 4 Clay loam plain Eucalypt woodland). This floristic group was mostly characterised by species group B and G. This floristic group had an average species richness of eight taxa per quadrat (ranged from six to ten taxa per quadrat) and thirteen taxa per quadrat (ranged from seven to twenty-four taxa per quadrat).

Based on the results of the PATN analysis, there was minimal heterogeneity in species composition of Eucalypt woodland and Mallee woodland vegetation types within the Bremer Range region and the surrounding area with majority of these vegetation types intermixed into floristic groups. The exception being the Eucalypt woodlands associated with sand-loam plains studied by both Botanica (SLP-EW) and Gibson & Lyons (Community 3) which were grouped individually in the analysis and the Mallee Woodland/ Casuarina Forest community of the greenstone hillslope (Community 6), which was previously identified by Gibson & Lyons as being restricted to a greenstone ridge south east of Maggie Hays Hill. Both the granite outcrop and closed depression community quadrats which were located along the haul road survey area were grouped separately from all other quadrats and were not represented within the Bremer Range PEC.

Both the quadrats studied by Botanica associated with lateritic hillslopes of the Medcalf deposit and lateritic hillslopes within the greater Bremer Range studied by Gibson & Lyons (Community 5) were grouped together, indicating the lateritic hillslopes of the Medcalf area have a similar species composition of lateritic hillslopes within the greater Bremer Range PEC.

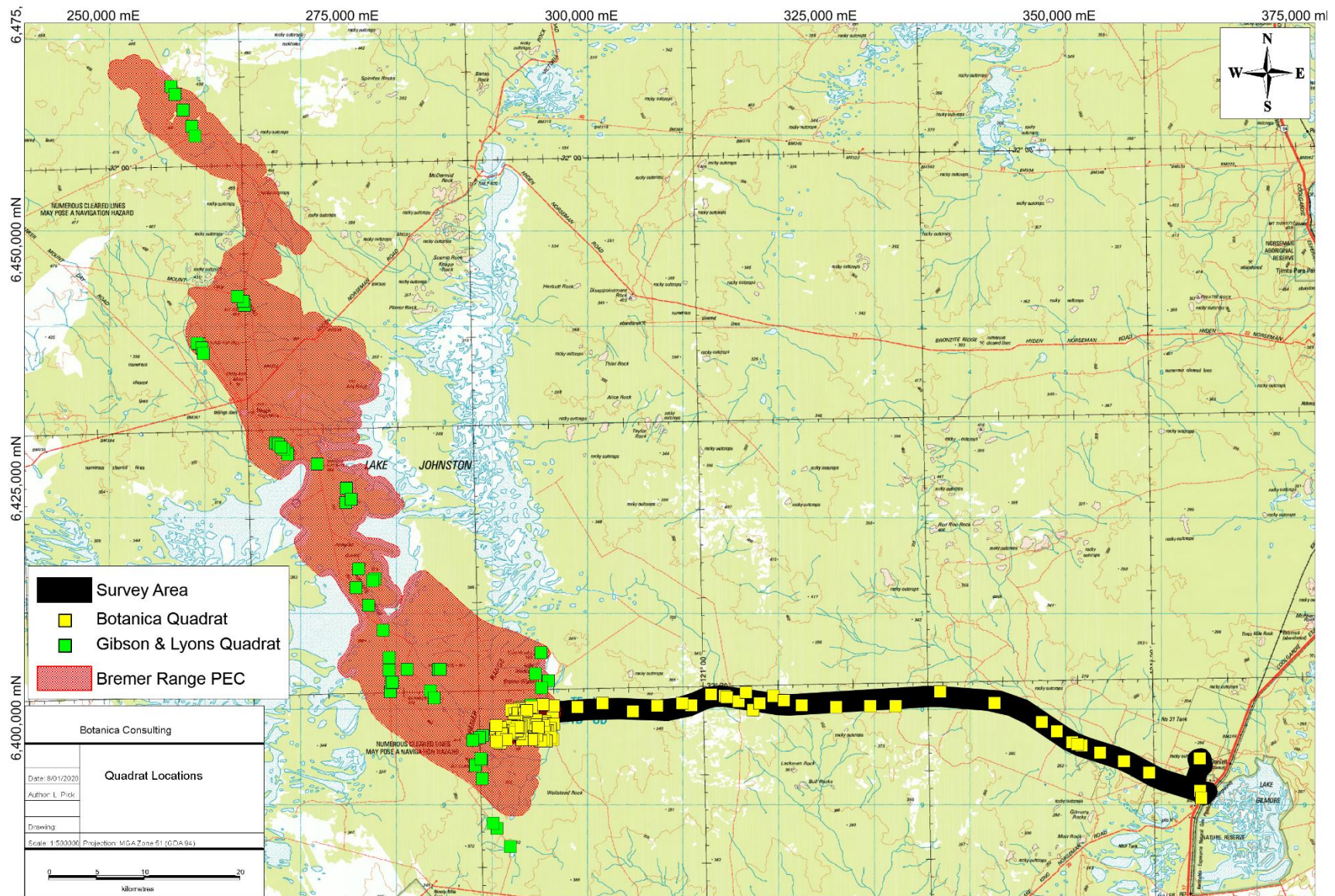


Figure 16: Quadrat Locations (Botanica and Gibson & Lyons) in relation to the Bremer Range PEC

4.9 Significant Flora

According to the EPA *Environmental Factor Guideline for Flora and Vegetation* (EPA, 2016a) significant flora includes:

- flora being identified as Threatened or Priority species;
- locally endemic flora or flora associated with a restricted habitat type (e.g. surface water or groundwater dependent ecosystems);
- new species or anomalous features that indicate a potential new species;
- flora representative of the range of a species (particularly, at the extremes of range, recently discovered range extensions, or isolated outliers of the main range);
- unusual species, including restricted subspecies, varieties or naturally occurring hybrids; and
- flora with relictual status, being representative of taxonomic groups that no longer occur widely in the broader landscape.

One Threatened Flora taxon pursuant to the BC Act was identified within the survey area; *Marianthus aquilonaris*. This taxon is not listed as Threatened under the EPBC Act. A map showing the population area of *Marianthus aquilonaris* is provided in Figure 18. Ten Priority Flora taxa as listed by DBCA were identified within the survey area:

1. *Acacia hystrix* subsp. *continua* (P1);
2. *Acacia mutabilis* subsp. *stipulifera* (P3);
3. *Bossiaea flexuosa* (P3);
4. *Brachyloma stenolobum* (P1);
5. *Eucalyptus pterocarpa* (P3);
6. *Eucalyptus rhomboidea* (P4);
7. *Hakea pendens* (P3);
8. *Microcybe* sp. Windy Hill (G.F. Craig 6583) (P3);
9. *Stenanthemum bremerense* (P4); and
10. *Teucrium diabolicum* (P3).

A map showing the locations of these flora taxa identified within the survey area is provided in Figure 17. Descriptions of all significant flora identified is provided in Table 28. GPS coordinates for flora of conservation significance recorded within the survey area are provided in Appendix 9⁵. One of the Priority Flora taxa identified; *Eucalyptus rhomboidea* (P4) is currently being nominated by DBCA for Threatened status under the BC Act. A second Priority Flora taxon; *Stenanthemum bremerense* (P4) is being considered by DBCA for nomination to Threatened status under the BC Act. A map showing the population area⁶ of *Eucalyptus rhomboidea* and *Stenanthemum bremerense* is provided in Figure 18.

Locations of all flora of conservation significance listed on the DBCA database within the survey area were searched during the surveys, however the following taxa were not identified during the surveys:

1. *Aotus* sp. Dundas (M.A. Burgman 2835)
2. *Stylidium pulviniforme*

No other significant flora were identified within the survey area.

⁵ Location of Threatened Flora not provided in this report due to the sensitive nature of this information.

⁶ Population extent for records located with recently burnt areas not able to be determined.

Table 28: Significant Flora recorded within the survey area

Taxon	Location and population description	Associated Habitat/ Vegetation	Distribution (WAHERB, 2019)	Image
<p><i>Marianthus aquilonaris</i> (T)</p>	<p>Currently known from one population, including six subpopulations (population 1a-1f) all of which occur within the Bremer Range. Due to the sensitive nature of record details, no population size/ location details are included in this report.</p>	<p>Found in the Bremer Range, growing in orange to grey-brown sandy loam, rocky red-orange clay loam, laterite and quartzite, on rock outcrops and slopes (WAHERB, 2020).</p> <p>Grows in gravelly, shallow loamy soils with an indurated, mottled zone layer that occurs within 30 cm of the soil surface ('Shallow gravel over indurated mottled zone' soil). These soils are almost always located on a low ridge that typically have outcrops of limonite (Neil Lantzke, 2019).</p> <p>Identified within Regrowth mid open mallee woodland of <i>Eucalyptus livida</i> over mid open shrubland of <i>Hakea pendens</i> and open low shrubland of <i>Goodia medicaginea</i> on hillslope (HS-MWS1).</p>	<p><i>Marianthus aquilonaris</i></p>	

Taxon	Location and population description	Associated Habitat/ Vegetation	Distribution (WAHERB, 2019)	Image
<p><i>Acacia hystrix</i> subsp. <i>continua</i> (P1)</p>	<p>A total of four locations of this taxon recorded at one DBCA recorded location from one population (122 individuals including Botanica and DBCA records) located approximately 3km west of the Coolgardie-Esperance Highway. No other records on the DBCA database of this taxon within a 50km radius of the survey area.</p>	<p>Grows in clay-loam soils of Eucalypt woodlands (WAHERB, 2020). Identified within Low open woodland of <i>Eucalyptus salmonophloia</i> over mixed shrubs on clay-loam plain (CLP-EW1).</p>	<p><i>Acacia hystrix</i> subsp. <i>continua</i></p>	
<p><i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)</p>	<p>A total of seventy-three locations of this taxon have been recorded from multiple populations (348,332 individuals) extending from Bremer Range to approximately 50km east of Bremer Range. 34 records of this taxon are listed on the DBCA database (120 individuals) extending 250km south-west of the survey area including records within the Lake Magenta Nature Reserve, Breakaway Ridge Nature Reserve and Lakeland Nature Reserve.</p>	<p>Grows in loam or clay, usually in slightly saline soils (WAHERB, 2020). Identified within: 1. Low open woodland of <i>Eucalyptus salmonophloia</i> over mixed shrubs on clay-loam plain (CLP-EW1). 2. Mid mallee shrubland of <i>Eucalyptus</i> spp. over mid shrubland of <i>Melaleuca pauperiflora</i> and mixed low shrubland on clay-loam plain (CLP-MWS1). 3. Mid mallee woodland of <i>Eucalyptus</i> spp. over mixed low shrubland/ heathland on clay-loam plain (CLP-MWS2). 4. Mid sparse mallee shrubland of <i>Eucalyptus eremophila</i> over heathland of <i>Melaleuca</i> spp. on sand-loam plain (SLP-MWS1). 5. Regrowth mid sparse mallee shrubland of <i>Eucalyptus</i> spp. over low open shrubland of <i>Acacia / Grevillea</i> spp. and open hummock grassland of <i>Triodia scariosa</i> on sand-loam plain (SLP-MWS2).</p>	<p><i>Acacia mutabilis</i> subsp. <i>stipulifera</i></p>	

Taxon	Location and population description	Associated Habitat/ Vegetation	Distribution (WAHERB, 2019)	Image
<p><i>Bossiaea flexuosa</i> (P3)</p>	<p>One location of this taxon (100 individuals) recorded at Bremer Range. 26 records of this taxon are listed on the DBCA database (117 individuals) extending 220km to the south/ east and south-west of the survey area including records within the Frank Hann National Park and Dundas Nature Reserve.</p>	<p>Grows in deep sandy soil (WAHERB, 2020). Identified within Mid sparse mallee shrubland of <i>Eucalyptus eremophila</i> over heathland of <i>Melaleuca</i> spp. on sand-loam plain (SLP-MWS1).</p>	<p><i>Bossiaea flexuosa</i></p>	
<p><i>Brachyloma stenolobum</i> (P1)</p>	<p>Two locations of this taxon were recorded from one population (500 individuals) located approximately 25km east of Bremer Range. This record represents a range extension for this taxon, having previously only been recorded on the DBCA database (60 individuals) within the Forrestania region (south of the Jilbadji Nature Reserve), approximately 100km west of the survey area.</p>	<p>Grows in yellow sandplain as a component of heath. Associated species include <i>Allocasuarina spinosissima</i>, <i>Acacia heteroneura</i>, <i>Melaleuca cordata</i> and <i>M. calyptroides</i> (Hislop & Cranfield, 2014). Identified within Mid mallee woodland of <i>Eucalyptus</i> spp. over mixed low shrubland/ heathland on clay-loam plain (CLP-MWS2).</p>	<p><i>Brachyloma stenolobum</i></p>	

Taxon	Location and population description	Associated Habitat/ Vegetation	Distribution (WAHERB, 2019)	Image
<p><i>Eucalyptus pterocarpa</i> (P3)</p>	<p>One location of this taxon recorded from one population (100 individuals) located approximately 20km east of Bremer Range. No records on the DBCA database of this taxon within a 50km radius of the survey area.</p>	<p>Grows in red-brown sandy loam, yellow-brown silty loam soils of creek edges and rocky slopes (WAHERB, 2020).</p> <p>Identified within Low open woodland of <i>Eucalyptus salmonophloia</i> over mixed shrubs on clay-loam plain (CLP-EW1).</p>	<p><i>Eucalyptus pterocarpa</i></p> <p>04/Nov/2019 © WA Herbarium</p>	
<p><i>Eucalyptus rhomboidea</i> (P4)</p>	<p>A total of 268 locations of this taxon have been recorded from six sub-populations (15,606 individuals including Botanica and DBCA records). This taxon is endemic to the Bremer Range area. This taxon is currently being nominated for Threatened Status under the BC Act.</p>	<p>Grows in gravelly sand, and is found on slight rises (WAHERB, 2020).</p> <p>Grows on a range of soil groups at a range of positions in the landscape. This species was found growing on 'Alkaline red shallow loamy duplex' soils that occur on the lower, mid and upper slopes. It was found growing on 'Loamy gravel' soils on the lateritic plateau at the top of the landscape and on the mid slopes. It was also found growing on 'Shallow gravel' soils, below a breakaway (Neil Lantzke, 2019).</p> <p>Found in a variety of habitats including within creeklines and low to mid gravelly rises and lateritic slopes (Botanica pers. comms).</p> <p>Identified within:</p> <ol style="list-style-type: none"> 1. Low open woodland of <i>Eucalyptus salmonophloia</i> over mixed shrubs on clay-loam plain (CLP-EW1). 2. Mid mallee shrubland of <i>Eucalyptus</i> spp. over mid shrubland of <i>Melaleuca pauperiflora</i> and mixed low shrubland on clay-loam plain (CLP-MWS1). 3. Regrowth mid open mallee woodland of <i>Eucalyptus livida</i> over mid open shrubland of <i>Hakea pendens</i> and open low shrubland of <i>Goodia</i> 	<p><i>Eucalyptus rhomboidea</i></p> <p>04/Nov/2019 © WA Herbarium</p>	

Taxon	Location and population description	Associated Habitat/ Vegetation	Distribution (WAHERB, 2019)	Image
		<p><i>medicaginea</i> on hillslope (HS-MWS1).</p> <p>4. Mid open mallee woodland of <i>Eucalyptus livida</i> over heathland of <i>Allocasuarina/ Hakea/ Melaleuca</i> and open low sedge of <i>Lepidosperma sanguinolentum</i> on hillslope (HS-MWS3).</p>		
<p><i>Hakea pendens</i> (P3)</p>	<p>A total of 592 locations of this taxon were recorded from one population (2435 individuals) at Bremer Range. 64 records of this taxon listed on the DBCA database (4348 individuals) extending 200km north-west of the survey area including records within the Parker Range region and Jilbadji Nature Reserve.</p>	<p>Grows in stony loam and is found on ironstone ridges (WAHERB, 2020).</p> <p>Identified within:</p> <ol style="list-style-type: none"> 1. Low open woodland of <i>Eucalyptus salmonophloia</i> over mixed shrubs on clay-loam plain (CLP-EW1). 2. Mid mallee shrubland of <i>Eucalyptus</i> spp. over mid shrubland of <i>Melaleuca pauperiflora</i> and mixed low shrubland on clay-loam plain (CLP-MWS1). 3. Regrowth mid open mallee woodland of <i>Eucalyptus livida</i> over mid open shrubland of <i>Hakea pendens</i> and open low shrubland of <i>Goodia medicaginea</i> on hillslope (HS-MWS1). 4. Regrowth mixed low shrubland on hillslope (HS-OS1). 	<p><i>Hakea pendens</i></p>	

Taxon	Location and population description	Associated Habitat/ Vegetation	Distribution (WAHERB, 2019)	Image
<p><i>Microcybe</i> sp. Windy Hill (G.F. Craig 6583) (P3)</p>	<p>A total of four locations of this taxon were recorded from two populations (682 individuals) within the Bremer Range. 25 records of this taxon listed on the DBCA database (26,280 individuals) extending 60km north-west the survey area.</p>	<p>No description available (WAHERB, 2020).</p> <p>Found in clay-loam/ sandy-loam soils on plains and low slopes (Botanica pers. comms).</p> <p>Identified within:</p> <ol style="list-style-type: none"> 1. Mid mallee shrubland of <i>Eucalyptus</i> spp. over mid shrubland of <i>Melaleuca pauperiflora</i> and mixed low shrubland on clay-loam plain (CLP-MWS1). 2. Regrowth mixed low shrubland on hillslope (HS-OS1). 	<p><i>Microcybe</i> sp. Windy Hill (G.F. Craig 6583)</p>	
<p><i>Stenanthemum bremerense</i> (P4)</p>	<p>A total of 1315 locations of this taxon were recorded from multiple populations (35,823 individuals) within the Bremer Range. 34 records of this taxon are listed on the DBCA database (4303 individuals) extending 100km north/ north-west of the survey area. This taxon is currently being considered for nomination for Threatened Status under the BC Act.</p>	<p>Grows in orange-brown sandy loam, orange-red gravelly loam, skeletal red loam, laterite and ironstone. It is found on the top or sides of outcrops and breakaways (WAHERB, 2020).</p> <p>Grows in loamy gravel soils and is found on the lateritic plateau at the top of the landscape and on areas of gravelly rises on the mid to lower slopes (Neil Lantzke, 2019).</p> <p>Found in a variety of habitats including sandy/ gravelly plains to low rise and lateritic slopes/ ridges (Botanica pers. comms).</p> <p>Identified within:</p> <ol style="list-style-type: none"> 1. Low open woodland of <i>Eucalyptus salmonophloia</i> over mixed shrubs on clay-loam plain (CLP-EW1). 2. Mid mallee shrubland of <i>Eucalyptus</i> spp. over mid shrubland of <i>Melaleuca pauperiflora</i> and mixed low shrubland on clay-loam plain (CLP-MWS1). 3. Regrowth mid open mallee woodland of <i>Eucalyptus livida</i> over mid open shrubland of 	<p><i>Stenanthemum bremerense</i></p>	

Taxon	Location and population description	Associated Habitat/ Vegetation	Distribution (WAHERB, 2019)	Image
		<p><i>Hakea pendens</i> and open low shrubland of <i>Goodia medicaginea</i> on hillslope (HS-MWS1).</p> <p>4. Mid open mallee woodland of <i>Eucalyptus livida</i> over heathland of <i>Allocasuarina/ Hakea/ Melaleuca</i> and open low sedge of <i>Lepidosperma sanguinolentum</i> on hillslope (HS-MWS3).</p> <p>5. Regrowth mixed low shrubland on hillslope (HS-OS1).</p>		
<p><i>Teucrium diabolicum</i> (P3)</p>	<p>A total of 39 locations of this taxon were recorded from multiple populations (12,700 individuals) within the Bremer Range. 15 records of this taxon are listed on the DBCA database (3453 individuals) extending 190km north/ north-west of the survey area. This taxon was previously listed as a Priority 1 taxon, however in 2018 was reduced to Priority 3.</p>	<p>Found on hills and road verges (WAHERB, 2020).</p> <p>Grows in self-mulching/ heavy clay soils in low-lying plains (Botanica pers. comms).</p> <p>Identified within:</p> <ol style="list-style-type: none"> 1. Low open woodland of <i>Eucalyptus salmonophloia</i> over mixed shrubs on clay-loam plain (CLP-EW1). 2. Mid mallee shrubland of <i>Eucalyptus</i> spp. over mid shrubland of <i>Melaleuca pauperiflora</i> and mixed low shrubland on clay-loam plain (CLP-MWS1). 3. Mid open mallee woodland of <i>Eucalyptus livida</i> over heathland of <i>Allocasuarina/ Hakea/ Melaleuca</i> and open low sedge of <i>Lepidosperma sanguinolentum</i> on hillslope (HS-MWS3). 4. Regrowth mixed low shrubland on hillslope (HS-OS1). 5. Regrowth low open woodland of <i>Codonocarpus cotinifolius</i> over mid shrubland of <i>Acacia/ Melaleuca</i> spp. and open tussock grassland of <i>Schoenus breviculmis</i> on sand-loam plain (SLP-OS1). 	<p><i>Teucrium</i> sp. dwarf (R. Davis 8813)</p>	

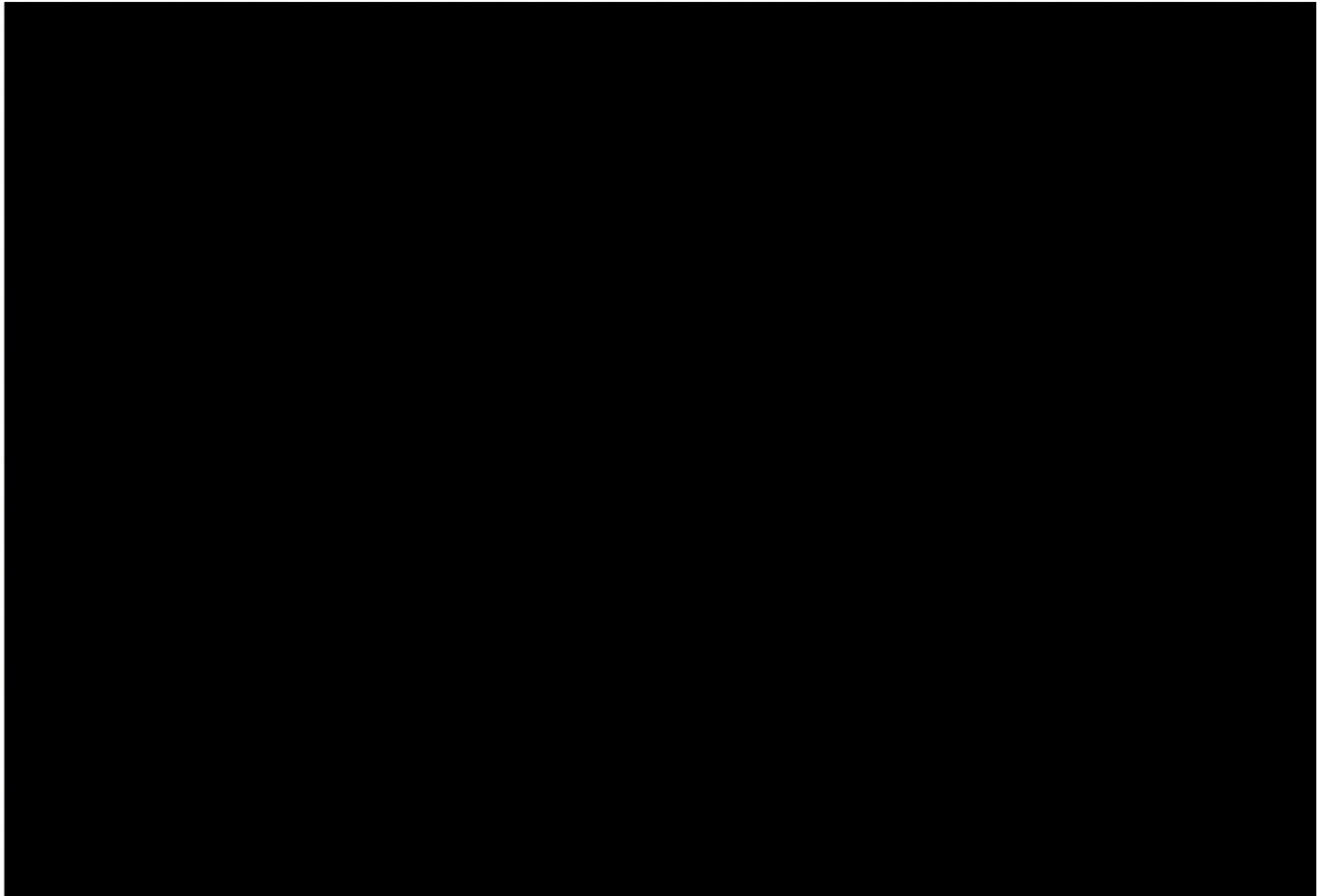


Figure 17: Flora of Conservation Significance identified within the survey area

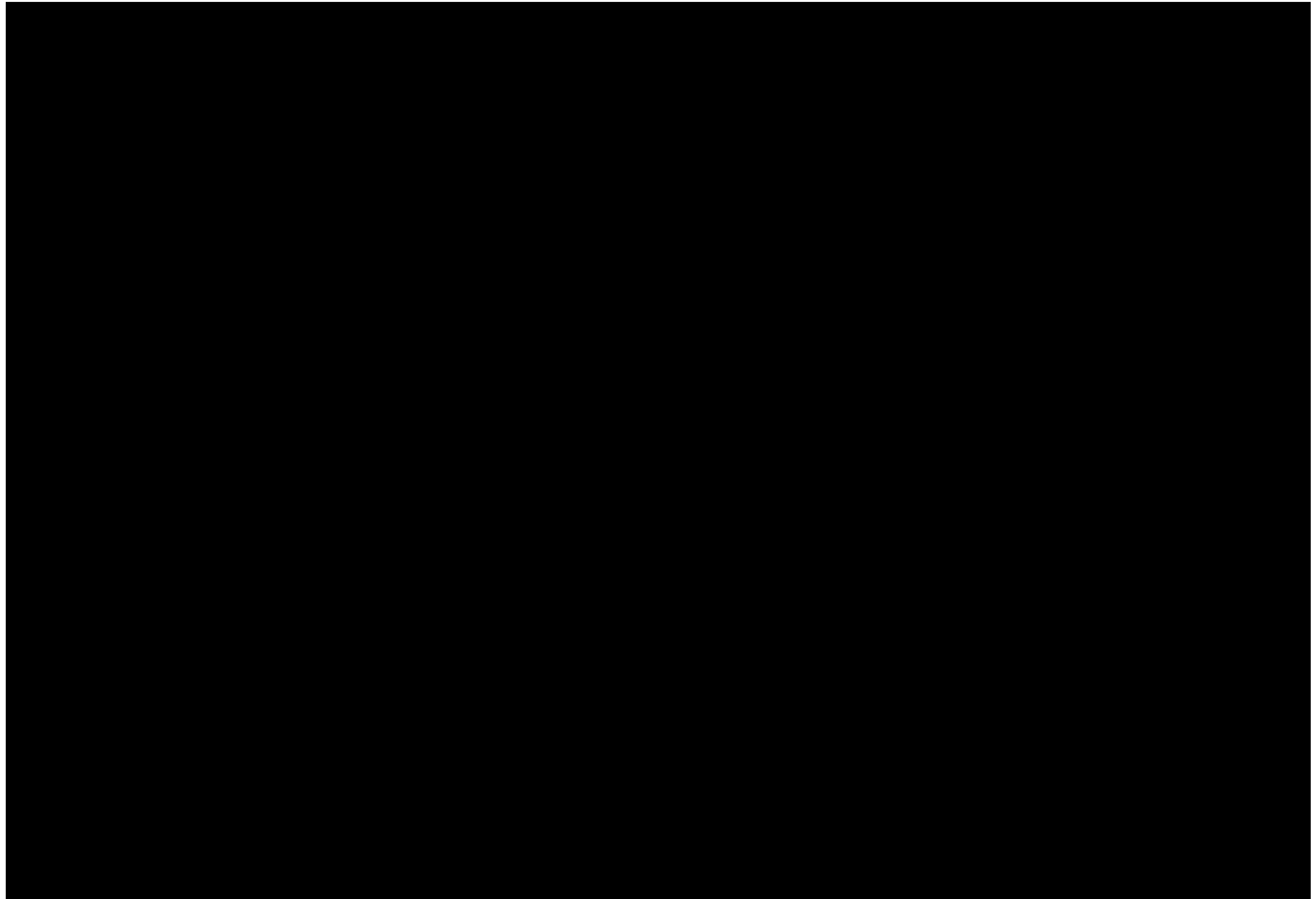


Figure 18: Significant Flora populations in relation to the survey area

4.10 Significant Vegetation

According to the EPA *Environmental Factor Guideline for Flora and Vegetation* (EPA, 2016b) significant vegetation includes:

- vegetation being identified as Threatened or Priority Ecological Communities;
- vegetation with restricted distribution;
- vegetation subject to a high degree of historical impact from threatening processes;
- vegetation which provides a role as a refuge; and
- vegetation providing an important function required to maintain ecological integrity of a significant ecosystem.

No TEC, restricted vegetation, highly disturbed vegetation, vegetation providing important refuge or significant ecological function was identified within the survey area. The western region of the survey area (associated with the mining project) is located within the Bremer Range vegetation complexes PEC which is listed by DBCA as a Priority 1 Ecological Community. This PEC (including the 500m buffer zone) encompasses an area of 88,150ha and is centred on Mt Day, Round Top Hill and Honman Ridge. The Bremer Range has potentially been listed as a PEC based on studies conducted by How *et. al.* (1988) and Gibson & Lyons (1998) which identified specialised vegetation mosaics associated within the Banded Ironstone Formation of Bremer Range. A description of the Bremer Range vegetation complexes PEC provided by the DPaW (2013c) is provided below:

Eucalyptus rhomboidea ms and *E. eremophila* woodland on the side slopes of low ridges; *E. flocktoniae* woodland (with *E. salubris*, *E. salmonophloia*, *E. dundasii* and *E. tenuis*) on broad flat ridges and side slopes; *E. flocktoniae* and/or *E. longicornis* woodland on saline soils on ridges and flats adjacent to large salt lake systems; *E. longicornis* and/or *E. salmonophloia* or, *E. georgei* subsp. *georgei* or, *E. dundasii* woodland, on low areas; *E. livida* woodland on lateritic tops or *Allocasuarina* thickets on greenstone ridges of lateritic breakaways; *Acacia duriuscula*, *Allocasuarina globosa*, *E. georgei* subsp. *georgei* and *E. oleosa* thickets on greenstone ridges with skeletal soils.

As specified in Section 4.8, the lateritic hillslopes of the Medcalf deposit and lateritic hillslopes within the greater Bremer Range studied by Gibson & Lyons (Community 5) were grouped together, indicating the lateritic hillslopes of the Medcalf area have a similar species composition of lateritic hillslopes within the greater Bremer Range PEC. The Eucalypt woodland and Mallee woodland vegetation types within the Bremer Range region were also representative of the Bremer Range PEC.

The granite outcrop, closed depression community and Eucalypt woodlands associated with sand-loam plains community which were located along the haul road survey area were not represented within the Bremer Range PEC.

The *Allocasuarina globosa* assemblages on greenstone rock PEC was also located approximately 3.5km south-west of the survey area, and is listed by DBCA as a Priority 1 Ecological Community. These assemblages are only known from the Norseman area and in the Bremer Ranges. None of the floristic communities within the survey area are representative of this PEC.

No other significant vegetation was identified within the survey area.

4.11 Matters of National Environmental Significance

None of the following matters of national environmental significance as defined by the Commonwealth EPBC Act were identified within the survey area:

- world heritage properties
- national heritage places
- wetlands of international importance (often called 'Ramsar' wetlands after the international treaty under which such wetlands are listed)
- nationally threatened species and ecological communities
- Commonwealth marine areas
- the Great Barrier Reef Marine Park
- nuclear actions (including uranium mining) a water resource, in relation to coal seam gas development and large coal mining development.

4.12 Other Environmental Significance

There are no wetlands of national importance (ANCA Wetlands) or conservation category wetlands within the survey area. The survey area does not contain any TEC as listed under the BC Act or EP Act. One Threatened Flora taxon listed under the BC Act was recorded within the survey area. The survey area contains ESA which occur within a 50 m radius of each Threatened Flora plant (covering an area of 19.7 ha), listed under the EP Act (Appendix 10). One un-named Class A Nature Reserve (Identifier R 42943) managed by DBCA is located within the eastern extremity of the survey area (approximately 301 ha of the survey area). This Nature Reserve is also listed as a Schedule 1 Area under the EP Regulations. A map showing this Nature Reserve in relation to the survey area is provided in Appendix 10.

The mining project survey area is located entirely within the proposed Bremer Range Nature Reserve which has a total area of 50,920ha. In 1992 it was proposed that the Bremer Range be managed by DBCA as a Nature Reserve in the DBCA South Coast Region Regional Management Plan, however to date this proposed reserve has not yet been approved. It is also not listed under the EPA Red Book recommendations for Conservation Reserves 1975-1993. The Bremer Range is a series of mineralised low hills, largely of greenstone with some banded ironstone, extending for 60 km along the south-eastern side of Lake Johnston and Lake Hope, to the north of the Norseman – Lake King road (How et. al., 1988). The surrounding area consists of gently undulating uplands and a salt lake system that includes Lake Johnston and Lake Medcalf (Gibson & Lyons, 1998). The Bremer Range is of significant biodiversity value due to the presence of endemic plant taxa, rare and restricted plant taxa and highly restricted and distinct plant communities. The Range has very distinct features in the regional landscape and in many cases possesses outstanding landscape values (Gibson & Lyons, 1998).

Approximately 2236 ha of the western extremity of the survey area is located within the *Bremer Range Vegetation Complexes* PEC1 as listed by DBCA. Ten Priority Flora taxa were recorded within the survey area.

A map showing areas of conservation significance in relation to the survey area is provided in Appendix 10.

5 Summary

Fourteen floristic communities were identified within the survey area. These communities were located within five different landform types and comprised of five major vegetation groups, which were represented by a total of 58 Families, 162 Genera and 411 Taxa.

One Threatened Flora taxon; *Marianthus aquilonaris*, listed under State legislation was recorded within the survey area. This taxon is not listed as Threatened under Commonwealth legislation. Ten Priority Flora taxa as listed by DBCA were identified within the survey area.

No TEC pursuant to State or Commonwealth legislation were identified within the survey area. The survey area does not contain any world or national heritage places, wetlands of international or national importance. Approximately 2236 ha of the western extremity of the survey area is located within the *Bremer Range Vegetation Complexes* PEC1 as listed by DBCA. The survey area contains ESA which occur within a 50m radius of each Threatened Flora plant (covering an area of 19.7 ha), listed under the EP Act. One un-named Class A Nature Reserve (Identifier R 42943) managed by DBCA is located within the eastern extremity of the survey area (approximately 301 ha of the survey area). This Nature Reserve is also listed as a Schedule 1 Area under the EP Regulations. The MVM Project survey area is located entirely within the proposed Bremer Range Nature Reserve.

Desktop assessments indicate the survey area has potential to include five terrestrial Groundwater Dependent Ecosystems, only one of which is considered to be of high potential for groundwater interaction; bare areas; salt lakes.

Vegetation condition in the survey area ranged from 'good' to 'very good'. Nine introduced species were identified within the survey area.

6 **Bibliography**

Armstrong, (2012), *Vegetation Survey and Rare Flora search on the Vesuvius Prospect Medcalf Project* Unpublished report prepared for Audalia Resources Limited. Paul Armstrong and Associates.

ASRIS (2014), *Atlas of Australian Soils Database*, Australian Soil Resource Information System.

Australian Government (2012), *Atlas of Groundwater Dependent Ecosystems (GDE Atlas), Phase 2 Task 5 Report: Identifying and mapping GDEs*. Prepared by Sinclair Knight Merz.

Botanica (2013), *Flora of Conservation Significance search of the Medcalf Exploration Project*, May 2013, Botanica Consulting, June 2013

Botanica (2015), *Level 2 Flora & Vegetation Survey for the Medcalf Vanadium Mining Project Spring 2013 to Autumn 2015*. Botanica Consulting, June 2015

Beard, J.S., (1990), *Plant Life of Western Australia*, Kangaroo Press Pty Ltd, NSW.

BoM, (2017), *Atlas of Groundwater Dependent Ecosystems*, Bureau of Meteorology
<http://www.bom.gov.au/water/groundwater/gde/map.shtml>
Accessed: 22/10/2017

BoM, (2020), *Norseman Aero rainfall station (#12009)*, Bureau of Meteorology
<http://www.bom.gov.au/climate/data/>
Accessed: 06/01/2020

Brearley, D.R, Dunlop, N.J and Osborne, J.M, (1998) *Biological Survey and Environmental Assessment of the Emily Ann Project Area*. School of Environmental Biology Curtin University of Technology

Campbell, R., Billing, N., Northcote, K., Hubble, G., Isbell, R., Thompson, C., and Bettenay, E., (1975), *A description of Australian Soils*, Canberra: C.S.I.R.O. Division of Soils.

Chinnock, R.J., (2007), *Eremophila and allied Genera – A Monograph of the Myoporaceae*, Rosenberg Publishing Pty. Ltd. NSW.

Cousens, R.D., Dodd, J., Lloyd, S.G., Hussey, B.M.J., and Keighery, G.J. (1997), *Western Weeds – A guide to weeds of Western Australia*, The Plant Protection society of Western Australia, Victoria Park

Cowan, M., Graham, G. & McKenzie, N. (2001), Coolgardie 2 (COO2 – Southern Cross subregion) In *A Biodiversity Audit of Western Australia's 53 Biogeographical Subregions in 2002*. Department of Conservation and Land Management

Cowan, M. (2001), *A Biodiversity Audit of Western Australia's 53 Biogeographical Region in 2001- Eastern Goldfield (COO3) subregion*, Department of Conservation and Land Management.

DAFWA (2011), *Pre-European Vegetation - Western Australia (NVIS Compliant Version GIS file)*, Department of Agriculture and Food Western Australia.

DAFWA (2014), *Soil Landscape System of Western Australia*, Department of Agriculture and Food Western Australia.

DBCA (2018), 2018 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Simplified Report). Department of Biodiversity, Conservation and Attractions.

DEC, (2007), Recommended Interim Protocol for Flora Surveys of Banded Ironstone Formations (BIF) of the Yilgarn Craton, Department of Environment and Conservation, Western Australia.

DEC, (2010), *Interim recovery plan No. 303 Bremer Marianthus (Marianthus aquilonaris) Interim Recovery Plan 2010-2014*. Department of Environment and Conservation.

DEC, (2011), A biodiversity and cultural conservation strategy for the Great Western Woodlands,
Department of Environment and Conservation

DotEE, (2012), *Interim Biogeographic Regionalisation for Australia (IBRA)*, Version 7, Department of the Environment and Energy.

DotEE, (2017a), *Protected Matters Search Tool, Environment Protection and Biodiversity Conservation Act 1999*, Department of the Environment and Energy.

DotEE, (2017b), *National Vegetation Information System (NVIS) Major Vegetation Groups, Version 4.2*, Department of the Environment and Energy

DPaW, (2017a), *Threatened and Priority Flora Database search results*, Department of Parks and Wildlife

DPaW, (2017b), *Threatened Ecological Community and Priority Ecological Community database search*, Department of Parks and Wildlife

DPaW (2017c), *Nature Map Database search*, Department of Parks and Wildlife.

DPIRD (2017), *Declared Organism-database search*, Department of Primary Industries and Regional Development, Western Australia.

<http://www.biosecurity.wa.gov.au/>

Accessed: 20/10/2017

EPA (2016), *Technical Guide - Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment – December 2016*. Department of Parks and Wildlife & Environmental Protection Authority.

Geoscience Australia (2017), Groundwater Dependent Ecosystems. Australian Government
<http://www.ga.gov.au/scientific-topics/water/groundwater/understanding-groundwater-resources/groundwater-dependant-ecosystems>

Accessed: 23/06/2017

Gibson, N. & Lyons, M.N (1998), *Flora and Vegetation of the Eastern Goldfields Ranges: Part 2. Bremer Range*, Journal of the Royal Society of Western Australia, 81:107-117.

How, R.A, Newbey, K.R, Dell, J., Muir, B.G & Hnatiuk, R.J, (1988), *The Biological survey of the Eastern Goldfields of Western Australia: Part 4. Lake Johnston-Hyden Study Area* Western Australian Museum Supplement No. 30.

IUCN, (2008), *Guidelines for Applying Protected Area Management Categories*. International Union for Conservation of Nature

IUCN (2016), *The IUCN Red List of Threatened Species. Version 2016-3*. International Union for Conservation of Nature.

Landgate, (2017), *Landgate fire watch database*. Landgate Western Australian Government
http://firewatch.landgate.wa.gov.au/landgate_firewatch_public.asp

Accessed: 29/06/2017

McKenzie, N.L., May J.E. and McKenna, S, (2002) *Bioregional Summary of the 2002 Biodiversity Audit for Western Australia*.

Mc Donald, R.C, Isbell, R.F & Speight, J.G (1998), *Australian Soil and Land Survey Field Handbook* (3rd edn). CSIRO Publishing: Melbourne.

Neil Lantzke (2019), *Soils of the Audalia Medcalf area. Investigations into the soils on which *Marianthus aquilonaris*, *Eucalyptus rhomboidea* and *Stenanthemum bremerense* grow - for use in defining critical habitats*. Western Horticultural Consulting.

Tille, P. (2006), *Soil Landscapes of Western Australia's Rangelands and Arid Interior*, Department of Agriculture and Food Western Australia.

WAHERB, (2019), *Florabase – Information on the Western Australian Flora*, Department of Biodiversity, Conservation and Attractions

<http://florabase.dbcawa.gov.au>

Accessed 03/12/2019

Watson, A., Judd, S., Watson J., Lam, A. and Mackenzie, D., (2008) *The Extraordinary Nature of The Great Western Woodlands*. The Wilderness Society of WA

Appendix 1: Conservation Significant Species/ Communities Categories (BC Act and EPBC Act)

Definitions of Conservation Significant Species

Code	Category
State categories of Threatened and Priority species	
Threatened Species (T)	
Listed by order of the Minister as Threatened in the category of critically endangered, endangered or vulnerable under section 19(1), or is a rediscovered species to be regarded as Threatened species under section 26(2) of the Biodiversity Conservation Act 2016 (BC Act).	
CR	<p>Critically Endangered</p> <p>Threatened species considered to be “facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines”.</p> <p>Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines. Published under schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice 2018 for critically endangered fauna or the Wildlife Conservation (Rare Flora) Notice 2018 for critically endangered flora.</p>
EN	<p>Endangered</p> <p>Threatened species considered to be “facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines”.</p> <p>Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines. Published under schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice 2018 for endangered fauna or the Wildlife Conservation (Rare Flora) Notice 2018 for endangered flora.</p>
VU	<p>Vulnerable</p> <p>Threatened species considered to be “facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with criteria set out in the ministerial guidelines”.</p> <p>Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines. Published under schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice 2018 for vulnerable fauna or the Wildlife Conservation (Rare Flora) Notice 2018 for vulnerable flora.</p>
Extinct species	
Listed by order of the Minister as extinct under section 23(1) of the BC Act as extinct or extinct in the wild.	
EX	<p>Extinct</p> <p>Species where “<i>there is no reasonable doubt that the last member of the species has died</i>”, and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).</p> <p>Published as presumed extinct under schedule 4 of the <i>Wildlife Conservation (Specially Protected Fauna) Notice 2018</i> for extinct fauna or the <i>Wildlife Conservation (Rare Flora) Notice 2018</i> for extinct flora.</p>
EW	<p>Extinct in the Wild</p> <p>Species that “<i>is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form</i>”, and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act).</p> <p>Currently there are no Threatened fauna or Threatened flora species listed as extinct in the wild. If listing of a species as extinct in the wild occurs, then a schedule will be added to the applicable notice.</p>
Specially protected species	
Listed by order of the Minister as specially protected under section 13(1) of the BC Act. Meeting one or more of the following categories: species of special conservation interest; migratory species; cetaceans; species subject to international agreement; or species otherwise in need of special protection.	
Species that are listed as Threatened species (critically endangered, endangered or vulnerable) or extinct species under the BC Act cannot also be listed as Specially Protected species.	
IA	<p>International Agreement/ Migratory</p> <p>Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).</p> <p>Includes birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and fauna subject to the <i>Convention on the Conservation of Migratory Species of Wild Animals</i> (Bonn Convention), an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.</p>

Code	Category
	Published as migratory birds protected under an international agreement under schedule 5 of the <i>Wildlife Conservation (Specially Protected Fauna) Notice 2018</i> .
CD	Species of special conservation interest Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as Threatened, and listing is otherwise in accordance with the ministerial guidelines (section 14 of the BC Act). Published as conservation dependent fauna under schedule 6 of the <i>Wildlife Conservation (Specially Protected Fauna) Notice 2018</i> .
OS	Other specially protected species Fauna otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18 of the BC Act). Published as other specially protected fauna under schedule 7 of the <i>Wildlife Conservation (Specially Protected Fauna) Notice 2018</i> .
Priority species Possibly Threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. 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 Fauna or Flora. Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring. Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.	
P1	Priority 1: Poorly-known species Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.
P2	Priority 2: Poorly-known species Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.
P3	Priority 3: Poorly-known species Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.
P4	Priority 4: Rare, Near Threatened and other species in need of monitoring (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection but could be if present circumstances change. These species are usually represented on conservation lands. (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as Conservation Dependent. (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.
Commonwealth categories of Threatened species	
EX	Extinct Taxa where there is no reasonable doubt that the last member of the species has died.
EW	Extinct in the Wild Taxa where it is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.
CR	Critically Endangered Taxa that are facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria.

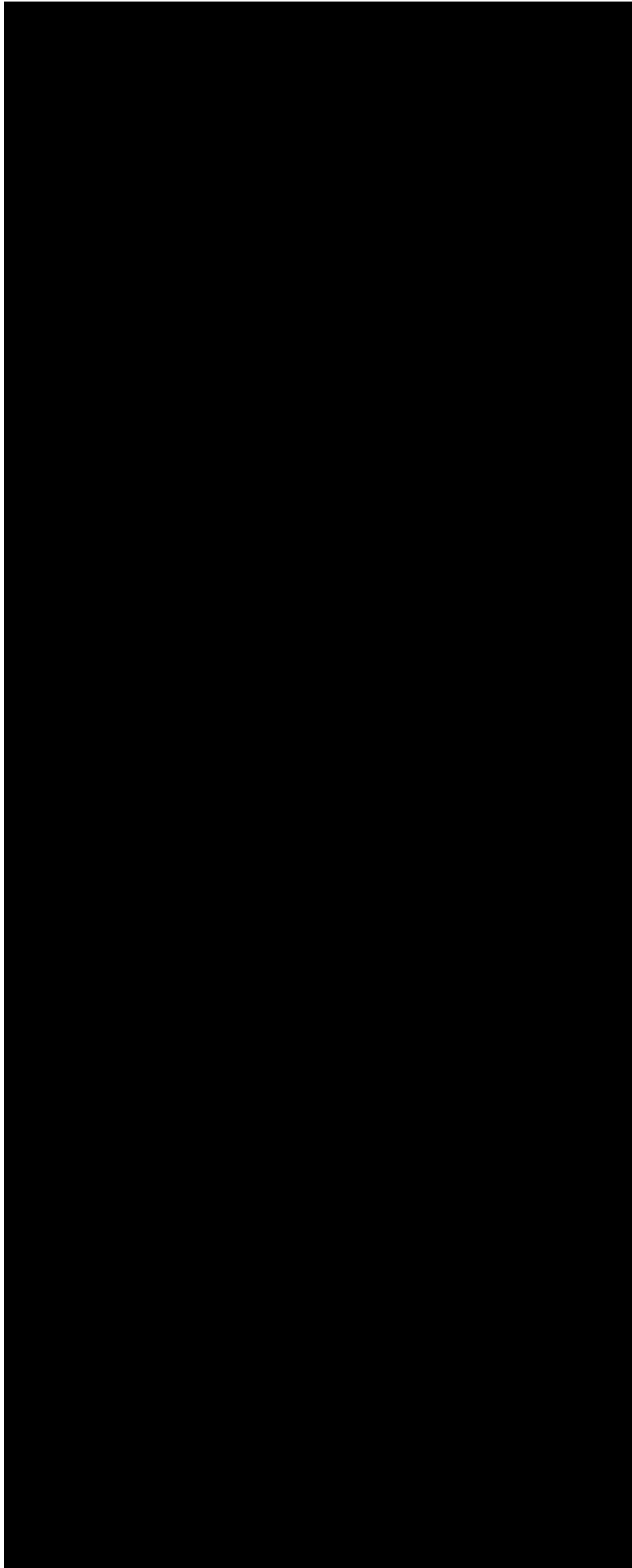
Code	Category
EN	<p>Endangered</p> <p>Taxa which are not critically endangered and is facing a very high risk of extinction in the wild in the near future, as determined in accordance with the prescribed criteria.</p>
VU	<p>Vulnerable</p> <p>Taxa which are not critically endangered or endangered and is facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria.</p>
CD	<p>Conservation Dependent</p> <p>Taxa which are the focus of a specific conservation program the cessation of which would result in the species becoming vulnerable, endangered or critically endangered; or (b) the following subparagraphs are satisfied:</p> <p>(i) the species is a species of fish;</p> <p>(ii) the species is the focus of a plan of management that provides for actions necessary to stop the decline of, and support the recovery of, the species so that its chances of long term survival in nature are maximised;</p> <p>(iii) the plan of management is in force under a law of the Commonwealth or of a State or Territory;</p> <p>(iv) cessation of the plan of management would adversely affect the conservation status of the species.</p>

Definitions of conservation significant communities

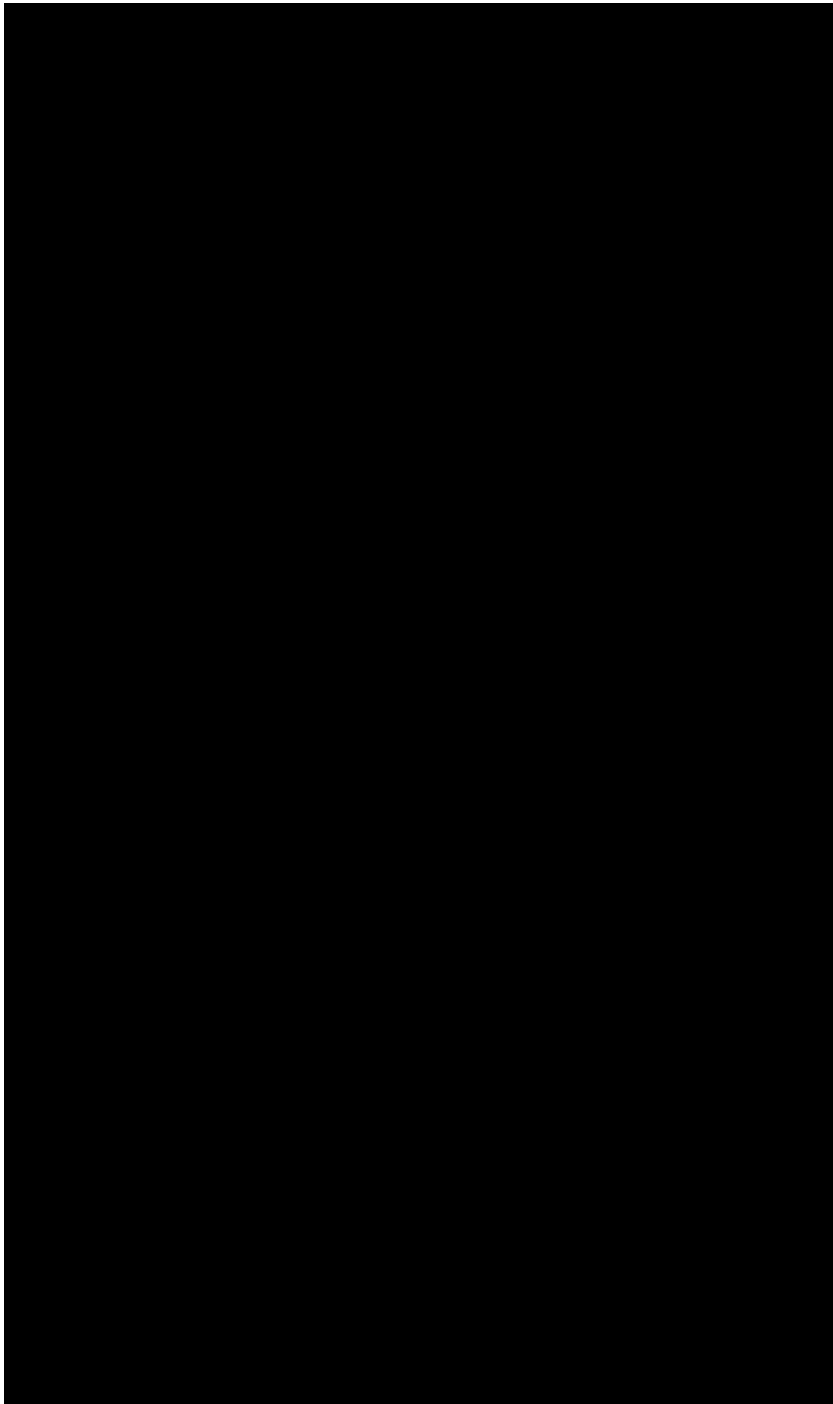
Category Code	Category
State categories of Threatened Ecological Communities (TEC)	
PD	<p>Presumed Totally Destroyed</p> <p>An ecological community will be listed as Presumed Totally Destroyed if there are no recent records of the community being extant and either of the following applies:</p> <ul style="list-style-type: none"> records within the last 50 years have not been confirmed despite thorough searches or known likely habitats or; all occurrences recorded within the last 50 years have since been destroyed.
CR	<p>Critically Endangered</p> <p>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, meeting any one of the following criteria:</p> <p>The estimated geographic range and distribution has been reduced by at least 90% and is either continuing to decline with total destruction imminent, or is unlikely to be substantially rehabilitated in the immediate future due to modification;</p> <p>The current distribution is limited i.e. highly restricted, having very few small or isolated occurrences, or covering a small area;</p> <p>The ecological community is highly modified with potential of being rehabilitated in the immediate future.</p>
EN	<p>Endangered</p> <p>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. The ecological community must meet any one of the following criteria:</p> <p>The estimated geographic range and distribution has been reduced by at least 70% and is either continuing to decline with total destruction imminent in the short-term future, or is unlikely to be substantially rehabilitated in the short-term future due to modification;</p> <p>The current distribution is limited i.e. highly restricted, having very few small or isolated occurrences, or covering a small area;</p> <p>The ecological community is highly modified with potential of being rehabilitated in the short-term future.</p>
VU	<p>Vulnerable</p> <p>An ecological community will be listed as Vulnerable when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing high risk of total destruction in the medium to long term future. The ecological community must meet any one of the following criteria:</p>

Category Code	Category
	<p>The ecological community exists largely as modified occurrences that are likely to be able to be substantially restored or rehabilitated;</p> <p>The ecological community may already be modified and would be vulnerable to threatening process, and restricted in range or distribution;</p> <p>The ecological community may be widespread but has potential to move to a higher threat category due to existing or impending threatening processes.</p>
Commonwealth categories of Threatened Ecological Communities (TEC)	
CE	<p>Critically Endangered If, at that time, an ecological community is facing an extremely high risk of extinction in the wild in the immediate future (indicative timeframe being the next 10 years).</p>
EN	<p>Endangered If, at that time, an ecological community is not critically endangered but is facing a very high risk of extinction in the wild in the near future (indicative timeframe being the next 20 years).</p>
VU	<p>Vulnerable If, at that time, an ecological community is not critically endangered or endangered, but is facing a high risk of extinction in the wild in the medium-term future (indicative timeframe being the next 50 years).</p>
Priority Ecological Communities (PEC)	
P1	<p>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.</p>
P2	<p>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, un-allocated Crown land, water reserves, etc.) and not under imminent threat of destruction or degradation.</p>
P3	<p>Poorly known ecological communities 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: 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; 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 and inappropriate fire regimes.</p>
P4	<p>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.</p>
P5	<p>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.</p>

Appendix 2: GPS Coordinates of Quadrat Locations (GDA 94)







Appendix 3: Quadrat Photographs

Quadrat 1
Spring 2013



Autumn 2014



Quadrat 2
Spring 2013



Autumn 2014



Quadrat 3
Spring 2013



Autumn 2014



Quadrat 4
Spring 2013



Autumn 2014



Quadrat 5
Spring 2013



Autumn 2014



Quadrat 6
Spring 2013



Autumn 2014



Quadrat 7
Spring 2013



Autumn 2014



Quadrat 8
Spring 2013



Autumn 2014



Quadrat 9
Spring 2013



Autumn 2014



Quadrat 10
Spring 2013



Autumn 2014



Quadrat 11
Spring 2013



Autumn 2014



Quadrat 12
Spring 2013



Autumn 2014



Quadrat 13
Spring 2013



Autumn 2014



Quadrat 14
Spring 2013



Autumn 2014



Quadrat 15
Spring 2013



Autumn 2014



Quadrat 16
Spring 2013



Autumn 2014



Quadrat 17
Spring 2013



Autumn 2014



Quadrat 18
Spring 2013



Autumn 2014



Quadrat 19
Spring 2013



Autumn 2014



Quadrat 20
Spring 2013



Autumn 2014



Quadrat 21
Spring 2013



Autumn 2014



Quadrat 22
Spring 2013



Autumn 2014



Quadrat 23
Spring 2013



Autumn 2014



Quadrat 24
Spring 2013



Autumn 2014



Quadrat 25
Spring 2013



Autumn 2014



Quadrat 26
Spring 2013



Autumn 2014



Quadrat 27
Spring 2013



Autumn 2014



Quadrat 28
Spring 2013



Autumn 2014



Quadrat 29
Spring 2013



Autumn 2014



Quadrat 30
Spring 2013



Autumn 2014



Quadrat 31
Spring 2013



Autumn 2014



Quadrat 32
Spring 2013



Autumn 2014



Quadrat 33
Spring 2013



Autumn 2014



Quadrat 34
Spring 2013



Autumn 2014



Quadrat 35
Spring 2013



Autumn 2014



Quadrat 36
Spring 2013



Autumn 2014



Quadrat 37
Spring 2013



Autumn 2014



Quadrat 38
Spring 2013



Autumn 2014



Quadrat 39
Spring 2013



Autumn 2014



Quadrat 40
Spring 2013



Autumn 2014



Quadrat 41
Spring 2013



Autumn 2014



Quadrat 42
Spring 2013



Autumn 2014



Quadrat 43
Spring 2013



Autumn 2014



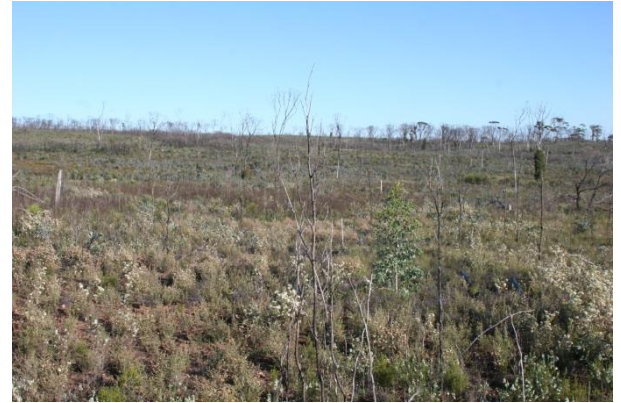
Quadrat 44
Spring 2013



Autumn 2014



Quadrat 45
Spring 2013



Autumn 2014



Quadrat 46
Spring 2013



Autumn 2014



Quadrat 47
Spring 2013



Autumn 2014



Quadrat 48
Spring 2013



Autumn 2014



Quadrat 49
Spring 2013



Autumn 2014



Quadrat 50
Spring 2013



Autumn 2014



Quadrat 51
Spring 2013



Autumn 2014



Quadrat 52
Spring 2013



Autumn 2014- Not available

Quadrat 53
Spring 2013



Autumn 2014



Quadrat 54
Spring 2013



Autumn 2014



Quadrat 55
Spring 2013



Autumn 2014



Quadrat 56
Spring 2013



Autumn 2014



Quadrat 57
Spring 2013



Autumn 2014



Quadrat 58
Spring 2013



Autumn 2014



Quadrat 59
Spring 2013



Autumn 2014



Quadrat 60
Spring 2013



Autumn 2014



Quadrat 61
Spring 2013



Autumn 2014



Quadrat 62
Spring 2013



Autumn 2014



Quadrat 63
Spring 2014



Autumn 2015



Quadrat 64
Spring 2014



Autumn 2015



Quadrat 65
Spring 2014



Autumn 2015



Quadrat 66
Spring 2014



Autumn 2015



Quadrat 67
Spring 2014



Autumn 2015



Quadrat 68
Spring 2014



Autumn 2015



Quadrat 69
Spring 2014



Autumn 2015



Quadrat 70
Spring 2014



Autumn 2015



Quadrat 71
Spring 2014



Autumn 2015



Quadrat 72
Spring 2014



Autumn 2015



Quadrat 73
Spring 2014



Autumn 2015



Quadrat 74
Spring 2014



Autumn 2015



Quadrat 75
Spring 2014



Autumn 2015



Quadrat 76
Spring 2014



Autumn 2015



Quadrat 77
Spring 2014



Autumn 2015



Quadrat 78
Spring 2014



Autumn 2015



Quadrat 79
Spring 2014



Autumn 2015



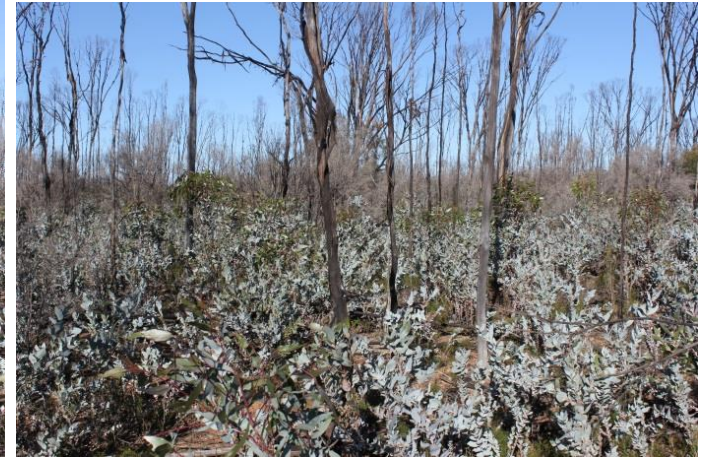
Quadrat 80
Spring 2014



Autumn 2015



Quadrat 81
Spring 2014



Autumn 2015



Quadrat 82
Spring 2014



Autumn 2015



Quadrat 83
Spring 2014



Autumn 2015



Quadrat 84
Spring 2014



Autumn 2015



Quadrat 85
Spring 2014



Autumn 2015



Quadrat 86
Spring 2014



Autumn 2015



Quadrat 87
Spring 2014



Autumn 2015



Quadrat 88
Spring 2014



Autumn 2015



Quadrat 89
Spring 2014



Autumn 2015



Quadrat 90
Spring 2014



Autumn 2015



Quadrat 91
Spring 2014



Autumn 2015



Quadrat 92
Spring 2014



Autumn 2015



Quadrat 93
Spring 2017



Autumn 2017



Quadrat 94
Spring 2017



Autumn 2017



Quadrat 95
Spring 2017



Autumn 2017



Quadrat 96
Spring 2017



Autumn 2017



Quadrat 97
Spring 2017



Autumn 2017



Quadrat 98
Spring 2017



Autumn 2017



Quadrat 99
Spring 2017



Autumn 2017



Quadrat 100

Spring 2017



Autumn 2017



Quadrat 101
Spring 2017



Autumn 2017



Quadrat 102
Spring 2017



Autumn 2017



Quadrat 103

Spring 2017



Autumn 2017



Quadrat 104
Spring 2017



Autumn 2017



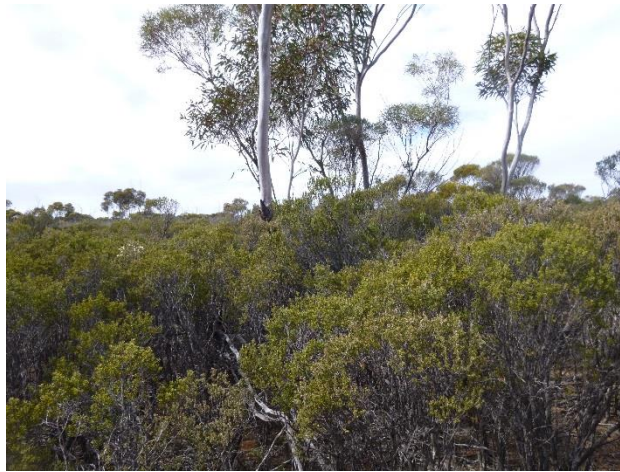
Quadrat 105
Spring 2017



Autumn 2017



Quadrat 106
Spring 2017



Autumn 2017



Quadrat 107
Spring 2017



Autumn 2017



Quadrat 108
Spring 2017



Autumn 2017



Quadrat 109
Spring 2017



Autumn 2017



Quadrat 110
Spring 2017



Autumn 2017



Quadrat 111
Spring 2017



Autumn 2017



Quadrat 112
Spring 2017



Autumn 2017



Quadrat 113
Spring 2017



Autumn 2017



Quadrat 114
Spring 2017



Autumn 2017



Quadrat 115
Spring 2017



Autumn 2017



Quadrat 116
Spring 2017



Autumn 2017



Quadrat 117
Spring 2017



Autumn 2017



Quadrat 118

Spring 2017



Autumn 2017



Quadrat 119
Spring 2017



Autumn 2017



Quadrat 120
Spring 2017



Autumn 2017



Quadrat 121
Spring 2017



Autumn 2017



Quadrat 122

Spring 2017



Autumn 2017



Quadrat 123
Spring 2017



Autumn 2017



Quadrat 124

Spring 2017



Autumn 2017



Quadrat 125
Spring 2017



Autumn 2017



Quadrat 126

Spring 2017



Autumn 2017



Quadrat 127
Spring 2017



Autumn 2017



Appendix 4: Quadrat Datasheets

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Vegetation Group: HS-MWS1		
Quadrat No: 1	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 33-35
Landform: M/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 5/3/UT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/LC/F		
%Cover leaf litter: 5		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Heath shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover: <10	Crown cover: <1	Crown cover: 30-70
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Melaleuca hamata</i>	<i>Marianthus aquilonaris</i> (T)
ALL SPECIES		
<i>Comesperma volubile</i>		
<i>Dampiera</i> sp.		
<i>Dodonaea bursariifolia</i>		
<i>Eucalyptus livida</i>		
<i>Gahnia aristata</i>		
<i>Hakea pendens</i> (P3)		
<i>Marianthus aquilonaris</i> (T)		
<i>Melaleuca hamata</i>		
<i>Stenanthemum bremerense</i> (P4)		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 2	
Quadrat size: 20m X 20m		
WP: 3	Vegetation group: CLP-EW1	
Photo number: 36-38		
Landform: L/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 4/3/UT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/CL/F		
%Cover leaf litter: 5		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Tree	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover: <1	Crown cover: <10	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Eucalyptus</i> sp. (juvenile)	<i>Pultenaea arida</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Asteridea athrixioides</i> (A)		
<i>Austrostipa acrociliata</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Exocarpos sparteus</i>		
<i>Grevillea huegelii</i>		
<i>Pultenaea arida</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Santalum acuminatum</i>		
<i>Teucrium</i> sp. Norseman (T.E.H. Aplin 1851)		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		
<i>Wilsonia humilis</i>		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 3	
Quadrat size: 20m X 20m		
WP: 6	Vegetation group: CLP-EW1	
Photo number: 39, 41, 42		
Landform: L/B/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 4/3/UT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/CL/F		
%Cover leaf litter: 40		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.25-0.5m
Crown cover: <1	Crown cover: <1	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Eremophila caerulea</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Alyogyne hakeifolia</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Austrostipa acrociliata</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus urna</i>		
<i>Goodenia pinifolia</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Sclerolaena uniflora</i>		
<i>Sonchus oleraceus</i> (W)		
Teucrium sp. Norseman (T.E.H. Aplin 1851)		
<i>Zygophyllum fruticosum</i>		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 4	
Quadrat size: 20m X 20m		
WP: 9	Vegetation group: CLP-EW1	
Photo number: 46-48		
Landform: M/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 4/2/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/LC/F		
%Cover leaf litter: 20		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Tree	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: <1	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Eucalyptus</i> sp. (juvenile)	<i>Acacia poliochroa</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Acacia poliochroa</i>		
<i>Alyogyne hakeifolia</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Daviesia argillacea</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Goodenia dyeri</i> (A)		
<i>Grevillea acuaria</i>		
<i>Grevillea huegelii</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		
<i>Waitzia acuminata</i> (A)		
<i>Westringia rigida</i>		
<i>Wilsonia humilis</i>		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 5	
Quadrat size: 20m X 20m		
WP: 11	Vegetation group: HS-MWS1	
Photo number: 55-58		
Landform: U/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 5/4/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/CL/F		
%Cover leaf litter: 20		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.25-0.5m
Crown cover: <10	Crown cover: <1	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Hakea pendens</i>	<i>Hybanthus floribundus</i> subsp. <i>curvifolius</i>
ALL SPECIES		
<i>Cryptandra graniticola</i>		
<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)		
<i>Eucalyptus livida</i>		
<i>Goodia medicaginea</i>		
<i>Hakea pendens</i> (P3)		
<i>Hybanthus floribundus</i> subsp. <i>curvifolius</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Millotia tenuifolia</i> var. <i>tenuifolia</i> (A)		
<i>Waitzia acuminata</i> (A)		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 6	
Quadrat size: 20m X 20m		
WP: 16	Vegetation group: CLP-EW1	
Photo number: 67-69		
Landform: M/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 2/3/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/CL/F		
%Cover leaf litter: 5		
%Cover bare ground: 10		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover:	Crown cover: <1	Crown cover: >70
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Rhagodia preissii</i> subsp. <i>preissii</i>	<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>
ALL SPECIES		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Asteridea athrixioides</i> (A)		
<i>Austrostipa acrociliata</i>		
<i>Austrostipa exilis</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Goodenia dyeri</i> (A)		
<i>Melaleuca</i> sp. (juvenile)		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Santalum acuminatum</i>		
<i>Sonchus oleraceus</i> (W)		
<i>Teucrium</i> sp. Norseman (T.E.H. Aplin 1851)		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		
<i>Zygophyllum fruticosum</i>		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 7	
Quadrat size: 20m X 20m		
WP: 20	Vegetation group: CLP-MWS1	
Photo number: 70-72		
Landform: U/T/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 4/3/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/CL/S		
%Cover leaf litter: 40		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 3-6m	Height: 0.5-1m
Crown cover: 30-70	Crown cover: 30-70	Crown cover: <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Olearia muelleri</i>
ALL SPECIES		
<i>Austrostipa exilis</i>		
<i>Cassytha racemosa</i>		
<i>Daviesia argillacea</i>		
<i>Eremophila psilocalyx</i>		
<i>Eucalyptus urna</i>		
<i>Exocarpos aphyllus</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		
<i>Podolepis capillaris</i> (A)		
<i>Santalum acuminatum</i>		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 8	
Quadrat size: 20m X 20m		
WP: 25	Vegetation group: CLP-EW1	
Photo number: 75-77		
Landform: L/B/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 3/2/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/MC/F		
%Cover leaf litter: 20		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: <1	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Eremophila saligna</i>	<i>Scaevola spinescens</i>
ALL SPECIES		
<i>Alyxia buxifolia</i>		
<i>Asteridea athrixioides</i> (A)		
<i>Austrostipa variabilis</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila saligna</i>		
<i>Eremophila scoparia</i>		
<i>Eriochiton sclerolaenoides</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Eucalyptus salubris</i>		
<i>Maireana trichoptera</i>		
<i>Ptilotus holosericeus</i> (A)		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Scaevola spinescens</i>		
<i>Sclerolaena uniflora</i>		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		
<i>Sonchus oleraceus</i> (W)		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 9	
Quadrat size: 20m X 20m		
WP: 25	Vegetation group: CLP-EW1	
Photo number: 80-82		
Landform: L/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 3/4/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/MC/F		
%Cover leaf litter: 5		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: <1	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Acacia nyssophylla</i>
ALL SPECIES		
<i>Acacia nyssophylla</i>		
<i>Acacia poliochroa</i>		
<i>Alyxia buxifolia</i>		
<i>Austrostipa acrociliata</i>		
<i>Commersonia craurophylla</i>		
<i>Dianella revoluta</i> var. <i>divaricata</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Glischrocaryon roei</i>		
<i>Gompholobium gompholobioides</i>		
<i>Goodenia dyeri</i> (A)		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Sclerolaena uniflora</i>		
<i>Westringia rigida</i>		
<i>Wilsonia humilis</i>		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 10	
Quadrat size: 20m X 20m		
WP: 30	Vegetation group: CLP-MWS1	
Photo number: 89-91		
Landform: L/B/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 2/2/U		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/CL/F		
%Cover leaf litter: 5		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: >70	Crown cover: <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Olearia muelleri</i>
ALL SPECIES		
<i>Cassytha racemosa</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila psilocalyx</i>		
<i>Eucalyptus urna</i>		
<i>Exocarpos aphyllus</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 11	
Quadrat size: 20m X 20m		
WP: 32	Vegetation group: CLP-EW1	
Photo number: 92-94		
Landform: F/B/VLF		
Land surface/disturbance: 1 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 0		
Rock outcrop (abundance/runoff): 0/2		
Soil (profile/field texture/soil surface): U/MC/F		
%Cover leaf litter: 30		
%Cover bare ground: 70		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: 10-30	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Eucalyptus</i> sp. (juvenile)	<i>Olearia muelleri</i>
ALL SPECIES		
<i>Acacia poliochroa</i>		
<i>Austrostipa exilis</i>		
<i>Cassytha racemosa</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Exocarpos aphyllus</i>		
<i>Olearia muelleri</i>		
<i>Rytidosperma</i> sp. (sterile)		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 12	
Quadrat size: 20m X 20m		
WP: 35	Vegetation group: CLP-MWS1	
Photo number: 95-97		
Landform: U/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 3/2/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/MC/F		
%Cover leaf litter: 20		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: <10	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Dodonaea stenozyga</i>
ALL SPECIES		
<i>Acacia poliochroa</i>		
<i>Anthocercis anisantha</i> (A)		
<i>Austrostipa acrociliata</i>		
<i>Cassytha racemosa</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila saligna</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Eucalyptus urna</i>		
<i>Goodenia dyeri</i> (A)		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Sonchus oleraceus</i> (W)		

Project Name: MVM Project		
Date: 4/09/2013 & 16/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 13	
Quadrat size: 20m X 20m		
WP: 37	Vegetation group: HS-MWS1	
Photo number: 102-104		
Landform: C/T/HCR		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 6/5/AT		
Rock outcrop (abundance/runoff): 4/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 40		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover: 30-70	Crown cover: 10-30	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Melaleuca hamata</i>	<i>Phebalium filifolium</i>
ALL SPECIES		
<i>Allocasuarina campestris</i>		
<i>Cassytha racemosa</i>		
<i>Comesperma volubile</i>		
<i>Dodonaea bursariifolia</i>		
<i>Eremophila saligna</i>		
<i>Eucalyptus livida</i>		
<i>Hakea pendens</i> (P3)		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca hamata</i>		
<i>Phebalium filifolium</i>		
<i>Stenanthemum bremerense</i> (P4)		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 14	
Quadrat size: 20m X 20m		
WP: 38	Vegetation group: HS-MWS1	
Photo number: 105-107		
Landform: U/T/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 5/3/A		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZL/F		
%Cover leaf litter: 5		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover: <1	Crown cover: 30-70	Crown cover: 30-70
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Allocasuarina campestris</i>	<i>Stenanthemum bremerense</i>
ALL SPECIES		
<i>Acacia oswaldii</i> sens. lat.		
<i>Allocasuarina campestris</i>		
<i>Callitris preissii</i>		
<i>Calothamnus quadrifidus</i>		
<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)		
<i>Dodonaea bursariifolia</i>		
<i>Eucalyptus livida</i>		
<i>Gastrolobium crassifolium</i>		
<i>Hakea pendens</i> (P3)		
<i>Hakea subsulcata</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Stenanthemum bremerense</i> (P4)		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 15	
Quadrat size: 20m X 20m		
WP: 39	Vegetation group: CLP-EW1	
Photo number: 108-110		
Landform: U/T/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 6/3/A		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZL/F		
%Cover leaf litter: 5		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Sedge
Height: 6-12m	Height: 3-6m	Height: 0.25-0.5m
Crown cover: <1	Crown cover: <1	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Gahnia aristata</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Dodonaea bursariifolia</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila saligna</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Gahnia aristata</i>		
<i>Gompholobium gompholobioides</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		
<i>Pultenaea arida</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 16	
Quadrat size: 20m X 20m		
WP: 41	Vegetation group: HS-MWS1	
Photo number: 111-113		
Landform: C/T/HCR		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 6/4/U		
Rock outcrop (abundance/runoff): 4/3		
Soil (profile/field texture/soil surface): U/ZL/F		
%Cover leaf litter: 30		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover: <10	Crown cover: 10-30	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Allocasuarina campestris</i>	<i>Labichea stellata</i>
ALL SPECIES		
<i>Allocasuarina acutivalvis</i>		
<i>Allocasuarina campestris</i>		
<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)		
<i>Eucalyptus livida</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Gastrolobium crassifolium</i>		
<i>Goodenia pinifolia</i>		
<i>Hakea pendens</i> (P3)		
<i>Labichea stellata</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 17	
Quadrat size: 20m X 20m		
WP: 42	Vegetation group: HS-MWS1	
Photo number: 114-116		
Landform: C/T/HCR		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 6/5/A		
Rock outcrop (abundance/runoff): 5/3		
Soil (profile/field texture/soil surface): U/ZL/F		
%Cover leaf litter: 30		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.25-0.5m
Crown cover: 30-70	Crown cover: 10-30	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Allocasuarina campestris</i>	<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)
ALL SPECIES		
<i>Allocasuarina campestris</i>		
<i>Alyxia buxifolia</i>		
<i>Calothamnus quadrifidus</i>		
<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)		
<i>Dodonaea bursariifolia</i>		
<i>Eremophila saligna</i>		
<i>Eucalyptus livida</i>		
<i>Gastrolobium crassifolium</i>		
<i>Goodenia pinifolia</i>		
<i>Hakea pendens</i> (P4)		
<i>Lepidosperma sanguinolentum</i>		
<i>Phebalium filifolium</i>		
<i>Phebalium tuberculosum</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 18	
Quadrat size: 20m X 20m		
WP: 43	Vegetation group: CLP-MWS1	
Photo number: 126-128		
Landform: M/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 4/3/U		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 10		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: 30-70	Crown cover: <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus rhomboidea</i> (P4)	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Eremophila caerulea</i>
ALL SPECIES		
<i>Acacia deficiens</i>		
<i>Acacia erinacea</i>		
<i>Alyogyne hakeifolia</i>		
<i>Austrostipa variabilis</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila saligna</i>		
<i>Eucalyptus rhomboidea</i> (P4)		
<i>Goodenia dyeri</i> (A)		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Santalum acuminatum</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 19	
Quadrat size: 20m X 20m		
WP: 44	Vegetation group: CLP-MWS1	
Photo number: 129-131		
Landform: U/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 5/3/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 5		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover: 10-30	Crown cover: 10-30	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Melaleuca hamata</i>	<i>Westringia cephalantha</i>
ALL SPECIES		
<i>Acacia nyssophylla</i>		
<i>Cassyltha racemosa</i>		
<i>Dodonaea inaequifolia</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila saligna</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus livida</i>		
<i>Goodenia pinifolia</i>		
<i>Hakea pendens</i> (P3)		
<i>Hakea subsulcata</i>		
<i>Jacksonia nematoclada</i>		
<i>Melaleuca hamata</i>		
<i>Phebalium filifolium</i>		
<i>Philothea gardneri</i>		
<i>Stenanthemum bremerense</i> (P4)		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 20	
Quadrat size: 20m X 20m		
WP: 45	Vegetation group: CLP-MWS1	
Photo number: 132-134		
Landform: M/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 4/3/AT		
Rock outcrop (abundance/runoff): 4/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 5		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.25-0.5m
Crown cover: 10-30	Crown cover: 10-30	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Allocasuarina campestris</i>	<i>Stenanthemum bremerense</i>
ALL SPECIES		
<i>Acacia enervia</i> subsp. <i>enervia</i>		
<i>Allocasuarina campestris</i>		
<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus livida</i>		
<i>Exocarpos sparteus</i>		
<i>Gastrolobium crassifolium</i>		
<i>Hakea pendens</i> (P3)		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca hamata</i>		
<i>Phebalium filifolium</i>		
<i>Santalum acuminatum</i>		
<i>Stenanthemum bremerense</i> (P4)		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 21	
Quadrat size: 20m X 20m		
WP: 46	Vegetation group: HS-MWS1	
Photo number: 135-137		
Landform: MT/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 4/3/AT		
Rock outcrop (abundance/runoff): 3/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 20		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Sedge
Height: 3-6m	Height: 1-3m	Height: 0.25-0.5m
Crown cover: <10	Crown cover: 10-30	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Calothamnus quadrifidus</i>	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Acacia enervia</i> subsp. <i>enervia</i>		
<i>Allocasuarina campestris</i>		
<i>Calothamnus quadrifidus</i>		
<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)		
<i>Dodonaea bursariifolia</i>		
<i>Drosera macrantha</i> subsp. <i>macrantha</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus livida</i>		
<i>Gastrolobium crassifolium</i>		
<i>Hakea pendens</i> (P3)		
<i>Lepidosperma sanguinolentum</i>		
<i>Leptospermum fastigiatum</i>		
<i>Phebalium filifolium</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 22	
Quadrat size: 20m X 20m		
WP: 48	Vegetation group: HS-MWS1	
Photo number: 138-140		
Landform: U/T/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 5/3/AT		
Rock outcrop (abundance/runoff): 1/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 5		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: 10-30	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus horistes</i>	<i>Allocasuarina campestris</i>	<i>Westringia cephalantha</i>
ALL SPECIES		
<i>Acacia enervia</i> subsp. <i>enervia</i>		
<i>Allocasuarina campestris</i>		
<i>Beyeria brevifolia</i>		
<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)		
<i>Eucalyptus horistes</i>		
<i>Gastrolobium crassifolium</i>		
<i>Goodenia pinifolia</i>		
<i>Hakea pendens</i> (P3)		
<i>Hibbertia exasperata</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Phebalium filifolium</i>		
<i>Santalum acuminatum</i>		
<i>Stenanthemum bremerense</i> (P4)		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 23	
Quadrat size: 20m X 20m		
WP: 50	Vegetation group: HS-MWS1	
Photo number: 143-145		
Landform: M/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 4/4/A		
Rock outcrop (abundance/runoff): 4/4		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 40		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub mallee	Growth form: Shrub
Height: 6-12m	Height: 3-6m	Height: 0.5-1m
Crown cover: <1	Crown cover: <1	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Eucalyptus livida</i>	<i>Scaevola spinescens</i>
ALL SPECIES		
<i>Alyxia buxifolia</i>		
<i>Astroloma serratifolium</i>		
<i>Austrostipa exilis</i>		
<i>Bulbine semibarbata</i> (A)		
<i>Dodonaea stenozyga</i>		
<i>Enchylaena tomentosa</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila psilocalyx</i>		
<i>Eriochiton sclerolaenoides</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus livida</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Exocarpos aphyllus</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Sclerolaena uniflora</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 24	
Quadrat size: 20m X 20m		
WP: 53	Vegetation group: CLP-EW1	
Photo number: 146-148		
Landform: L/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 5/2/A		
Rock outcrop (abundance/runoff): 0/2		
Soil (profile/field texture/soil surface): U/CL/F		
%Cover leaf litter: 10		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover: <1	Crown cover: <10	Crown cover: <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Scaevola spinescens</i>	<i>Eremophila caerulea</i>
ALL SPECIES		
<i>Cassyltha racemosa</i>		
<i>Daviesia nematophylla</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila psilocalyx</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Exocarpos aphyllus</i>		
<i>Olearia muelleri</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Scaevola spinescens</i>		
<i>Sclerolaena drummondii</i>		
<i>Wilsonia humilis</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 25	
Quadrat size: 20m X 20m		
WP: 54	Vegetation group: HS-MWS1	
Photo number: 150-152		
Landform: M/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 5/3/		
Rock outcrop (abundance/runoff): 1/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 20		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Sedge
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover: <1	Crown cover: <1	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Hakea pendens</i> (P3)	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Allocasuarina acutivalvis</i>		
<i>Beyeria brevifolia</i>		
<i>Cassutha racemosa</i>		
<i>Comesperma volubile</i>		
<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)		
<i>Dodonaea bursariifolia</i>		
<i>Eucalyptus livida</i>		
<i>Hakea pendens</i> (P3)		
<i>Lepidosperma sanguinolentum</i>		
<i>Marianthus aquilonaris</i> (T)		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 26	
Quadrat size: 20m X 20m		
WP: 55	Vegetation group: HS-MWS1	
Photo number: 153-155		
Landform: M/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 3/3/AT		
Rock outcrop (abundance/runoff): 2/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 10		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Sedge
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover: 30-70	Crown cover: 10-30	Crown cover: <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	<i>Dodonaea bursariifolia</i>
ALL SPECIES		
<i>Calotis hispidula</i> (A)		
<i>Dodonaea bursariifolia</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila saligna</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus livida</i>		
<i>Grevillea acuaría</i>		
<i>Hakea pendens</i> (P3)		
<i>Phebalium filifolium</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 27	
Quadrat size: 20m X 20m		
WP: 57	Vegetation group: CLP-EW1	
Photo number: 161-163		
Landform: U/T/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 4/3/UT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 10		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: <1	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Daviesia nematophylla</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Acacia nyssophylla</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Asteridea athrixoides</i> (A)		
<i>Daviesia nematophylla</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila psilocalyx</i>		
<i>Eremophila subfloccosa</i> subsp. <i>glandulosa</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Exocarpos aphyllus</i>		
<i>Glischrocaryon flavescens</i>		
<i>Melaleuca acuminata</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		
<i>Scaevola spinescens</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 28	
Quadrat size: 20m X 20m		
WP: 60	Vegetation group: CLP-EW1	
Photo number: 174-176		
Landform: L/M/HSL		
Land surface/disturbance: 1 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 3/3/A		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/MC/F		
%Cover leaf litter: 20		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Sedge
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover: <1	Crown cover: <1	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Wilsonia humilis</i>
ALL SPECIES		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Austrostipa acrociliata</i>		
<i>Daviesia nematophylla</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila subfloccosa</i> subsp. <i>glandulosa</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Eucalyptus urna</i>		
<i>Goodenia dyeri</i> (A)		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Sclerolaena uniflora</i>		
<i>Wilsonia humilis</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 29	
Quadrat size: 20m X 20m		
WP: 61	Vegetation group: CLP-MWS1	
Photo number: 177-179		
Landform: M/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 3/3/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 5		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: <10	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Eremophila caerulea</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Daviesia benthamii</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus rhomboidea</i> (P4)		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Eucalyptus urna</i>		
<i>Exocarpos aphyllus</i>		
<i>Gompholobium gompholobioides</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Pultenaea arida</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 30	
Quadrat size: 20m X 20m		
WP: 62	Vegetation group: CLP-MWS1	
Photo number: 180-182		
Landform: L/B/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 0/1/R		
Rock outcrop (abundance/runoff): 0/2		
Soil (profile/field texture/soil surface): U/HC/F		
%Cover leaf litter: 10		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 3-6m	Height: 0.5-1m
Crown cover: <1	Crown cover: <10	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Olearia muelleri</i>
ALL SPECIES		
<i>Alyxia buxifolia</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Austrostipa variabilis</i>		
<i>Dodonaea bursariifolia</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus urna</i>		
<i>Goodenia dyeri</i> (A)		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		
<i>Santalum acuminatum</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 31	
Quadrat size: 20m X 20m		
WP: 63	Vegetation group: CLP-MWS1	
Photo number: 183-185		
Landform: M/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 4/4/AT		
Rock outcrop (abundance/runoff): 0/2		
Soil (profile/field texture/soil surface): U/MC/F		
%Cover leaf litter: 20		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 3-6m	Height: 0.5-1m
Crown cover: <1	Crown cover: <1	Crown cover: <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus eremophila</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Olearia muelleri</i>
ALL SPECIES		
<i>Cryptandra graniticola</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila psilocalyx</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus urna</i>		
<i>Grevillea acuaria</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		
<i>Scaevola spinescens</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 32	
Quadrat size: 20m X 20m		
WP: 64	Vegetation group: CLP-EW1	
Photo number: 186-188		
Landform: M/B/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 4/2/U		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/HC/F		
%Cover leaf litter: 5		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover: <1	Crown cover: <1	Crown cover: 30-70
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Santalum acuminatum</i>	<i>Wilsonia humilis</i>
ALL SPECIES		
<i>Acacia deficiens</i>		
<i>Austrostipa exilis</i>		
<i>Daviesia argillacea</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila psilocalyx</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		
<i>Wilsonia humilis</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 33	
Quadrat size: 20m X 20m		
WP: 67	Vegetation group: HS-MWS1	
Photo number: 192-194		
Landform: L/M/HSL		
Land surface/disturbance: 1 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 4/2/UT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/MC/F		
%Cover leaf litter: 5		
%Cover bare ground: 20		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover: <1	Crown cover: <10	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Melaleuca hamata</i>	<i>Stenanthemum bremerense</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831)		
<i>Beyeria brevifolia</i>		
<i>Commersonia craurophylla</i>		
<i>Eucalyptus livida</i>		
<i>Goodenia dyeri</i> (A)		
<i>Lepidosperma sanguinolentum</i>		
<i>Leptosema daviesioides</i>		
<i>Melaleuca hamata</i>		
<i>Pimelea microcephala</i>		
<i>Stenanthemum bremerense</i> (P4)		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 34	
Quadrat size: 20m X 20m		
WP: 68	Vegetation group: CLP-MWS1	
Photo number: 195-197		
Landform: S/B/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 3/2/AS		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/HC/F		
%Cover leaf litter: 10		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: <10	Crown cover: <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Eremophila psilocalyx</i>
ALL SPECIES		
<i>Acacia deficiens</i>		
<i>Asteridea athrixioides</i> (A)		
<i>Atriplex acutibractea</i> subsp. <i>karoniensis</i>		
<i>Eremophila psilocalyx</i>		
<i>Eriochiton sclerolaenoides</i>		
<i>Eucalyptus urna</i>		
<i>Gompholobium gompholobioides</i>		
<i>Maireana trichoptera</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Sclerolaena uniflora</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 35	
Quadrat size: 20m X 20m		
WP: 70	Vegetation group: CLP-EW1	
Photo number: 198-200		
Landform: S/B/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 4/1/U		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 10		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover: <1	Crown cover: <1	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Daviesia benthamii</i>	<i>Acacia deficiens</i>
ALL SPECIES		
<i>Acacia deficiens</i>		
<i>Acacia erinacea</i>		
<i>Austrostipa variabilis</i>		
<i>Daviesia benthamii</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila psilocalyx</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Grevillea acuaria</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 36	
Quadrat size: 20m X 20m		
WP: 71	Vegetation group: HS-MWS1	
Photo number: 201-203		
Landform: L/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 3/2/U		
Rock outcrop (abundance/runoff): 0/2		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 60		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Sedge
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover: <10	Crown cover: <10	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Melaleuca hamata</i>	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Allocasuarina campestris</i>		
<i>Beyeria brevifolia</i>		
<i>Bromus arenarius</i>		
<i>Comesperma volubile</i>		
<i>Dodonaea bursariifolia</i>		
<i>Eucalyptus livida</i>		
<i>Goodenia pinifolia</i>		
<i>Jacksonia nematoclada</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca hamata</i>		
<i>Santalum acuminatum</i>		
<i>Stenanthemum bremerense</i> (P4)		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 37	
Quadrat size: 20m X 20m		
WP: 72	Vegetation group: CLP-MWS1	
Photo number: 204-206		
Landform: V/B/GUL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 0/2/UT		
Rock outcrop (abundance/runoff): 0/4		
Soil (profile/field texture/soil surface): U/HC/F		
%Cover leaf litter: 20		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <10	Crown cover: <10	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus rhomboidea</i> (P4)	<i>Santalum acuminatum</i>	<i>Eremophila caerulea</i> <i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Alyxia buxifolia</i>		
<i>Cryptandra graniticola</i>		
<i>Daviesia nematophylla</i>		
<i>Dianella revoluta</i> var. <i>divaricata</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus rhomboidea</i> (P4)		
<i>Eucalyptus yilgarnensis</i>		
<i>Gahnia ancistrophylla</i>		
<i>Grevillea acuaria</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca acuminata</i>		
<i>Santalum acuminatum</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 38	
Quadrat size: 20m X 20m		
WP: 73	Vegetation group: CLP-MWS1	
Photo number: 207-209		
Landform: U/M/HSL		
Land surface/disturbance: 1		
Coarse fragments on the surface (abundance/size/shape): 3/3/UT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/MC/F		
%Cover leaf litter: 10		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: <1	Crown cover: <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus rhomboidea</i> (P4)	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Dodonaea stenozyga</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Acacia nyssophylla</i>		
<i>Boronia inornata</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus rhomboidea</i> (P4)		
<i>Gahnia ancistrophylla</i>		
<i>Gompholobium gompholobioides</i>		
<i>Goodenia pinifolia</i>		
<i>Grevillea acuaria</i>		
<i>Halgania andromedifolia</i>		
<i>Melaleuca acuminata</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 39	
Quadrat size: 20m X 20m		
WP: 74	Vegetation group: CLP-EW1	
Photo number: 210-212		
Landform: M/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 3/2/U		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/HC/F		
%Cover leaf litter: 20		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: <10	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Eremophila psilocalyx</i>	<i>Scaevola spinescens</i>
ALL SPECIES		
<i>Acacia pachypoda</i>		
<i>Austrostipa acrociliata</i>		
<i>Daviesia argillacea</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila psilocalyx</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Olearia muelleri</i>		
<i>Pittosporum angustifolium</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Scaevola spinescens</i>		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 40	
Quadrat size: 20m X 20m		
WP: 75	Vegetation group: CLP-MWS1	
Photo number: 213-215		
Landform: UM/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 3/3/UT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/MC/F		
%Cover leaf litter: 60		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 3-6m	Height: 0.25-0.5m
Crown cover: <1	Crown cover: <10	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Eremophila caerulea</i>
ALL SPECIES		
<i>Acacia hystrix</i> subsp. <i>hystrix</i>		
<i>Acacia nyssophylla</i>		
<i>Asteridea athrixoides</i> (A)		
<i>Austrostipa acrociliata</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus salubris</i>		
<i>Eucalyptus urna</i>		
<i>Gompholobium gompholobioides</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Santalum acuminatum</i>		
<i>Wilsonia humilis</i>		

Project Name: MVM Project		
Date: 5/09/2013 & 17/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 41	
Quadrat size: 20m X 20m		
WP: 76	Vegetation group: CLP-MWS1	
Photo number: 216-218		
Landform: U/M/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 3/3/UT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/MHC/F		
%Cover leaf litter: 10		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Tussock grass
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: <1	Crown cover: 30-70
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Austrostipa exilis</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Austrostipa exilis</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Eucalyptus urna</i>		
<i>Exocarpos aphyllus</i>		
<i>Gompholobium gompholobioides</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Pultenaea arida</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Sclerolaena uniflora</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 42	
Quadrat size: 20m X 20m		
WP: 77	Vegetation group: HS-OS1	
Photo number: 219-221		
Landform: U/M/HSL		
Land surface/disturbance: 2 (burnt) regrowth area after major fire		
Coarse fragments on the surface (abundance/size/shape): 3/2/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/MC/F		
%Cover leaf litter: 5		
%Cover bare ground: 20		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form:	Growth form: Shrub
Height:	Height:	Height: 0.5-1m
Crown cover:	Crown cover:	Crown cover: >70
Dominant taxa:	Dominant taxa:	Dominant taxa:
		<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>
ALL SPECIES		
<i>Alyogyne hakeifolia</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Austrostipa acrociliata</i>		
<i>Beyeria brevifolia</i>		
<i>Daviesia argillacea</i>		
<i>Daviesia nematophylla</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Melaleuca</i> sp. (juvenile)		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 43	
Quadrat size: 20m X 20m		
WP: 78	Vegetation group: HS-OS1	
Photo number: 222-224		
Landform: L/B/HSL		
Land surface/disturbance: 2		
Coarse fragments on the surface (abundance/size/shape): 3/3/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 5		
%Cover bare ground: 20		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover:	Crown cover: 10-30	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>	<i>Melaleuca</i> sp. (juvenile)
ALL SPECIES		
<i>Acacia hystrix</i> subsp. <i>hystrix</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Austrostipa acrociliata</i>		
<i>Daviesia argillacea</i>		
<i>Dodonaea</i> sp. (sterile)		
<i>Eucalyptus</i> sp. (sterile)		
<i>Goodenia dyeri</i> (A)		
<i>Melaleuca</i> sp. (juvenile)		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		
<i>Westringia rigida</i>		
<i>Zygophyllum fruticosum</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 44	
Quadrat size: 20m X 20m		
WP: 79	Vegetation group: HS-OS1	
Photo number: 225-227		
Landform: UM/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 3/3/AP		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/MHC/S		
%Cover leaf litter: 5		
%Cover bare ground: 20		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover:	Crown cover: 10-30	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>	<i>Dodonaea stenozyga</i>
ALL SPECIES		
<i>Acacia ligulata</i> (narrow phyllode form)		
<i>Allocasuarina</i> sp. (sterile)		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Asteridea athrixioides</i> (A)		
<i>Austrostipa acrociliata</i>		
<i>Commersonia craurophylla</i>		
<i>Daviesia argillacea</i>		
<i>Dodonaea stenozyga</i>		
<i>Melaleuca</i> sp. (juvenile)		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Solanum plicatile</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 45	
Quadrat size: 20m X 20m		
WP: 80	Vegetation group: HS-OS1	
Photo number: 228-230		
Landform: L/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 3/3/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/S		
%Cover leaf litter: 5		
%Cover bare ground: 10		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 0.5-1m	Height: 0.5-1m
Crown cover:	Crown cover: 10-30	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Stenanthemum stipulosum</i>	<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>
ALL SPECIES		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Asteridea athrixioides</i> (A)		
<i>Austrostipa acrociliata</i>		
<i>Beyeria brevifolia</i>		
<i>Codonocarpus cotinifolius</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila psilocalyx</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Halgania cyanea</i>		
<i>Stenanthemum stipulosum</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 46	
Quadrat size: 20m X 20m		
WP: 81	Vegetation group: HS-OS1	
Photo number: 231-233		
Landform: U/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 3/3/UT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 5		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover:	Crown cover: 30-70	Crown cover:
Dominant taxa:	Dominant taxa:	Dominant taxa: 10-30
	<i>Teucrium</i> sp. Norseman (T.E.H. Aplin 1851)	<i>Acacia poliochroa</i>
ALL SPECIES		
<i>Acacia poliochroa</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Asteridea athrixioides</i> (A)		
<i>Austrostipa exilis</i>		
<i>Daviesia benthamii</i>		
<i>Eremophila subfloccosa</i> subsp. <i>glandulosa</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Goodenia dyeri</i> (A)		
<i>Melaleuca</i> sp. (juvenile)		
<i>Teucrium</i> sp. Norseman (T.E.H. Aplin 1851)		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 47	
Quadrat size: 20m X 20m		
WP: 82	Vegetation group: HS-OS1	
Photo number: 234-236		
Landform: S/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 3/1/A		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/HC/S		
%Cover leaf litter: 5		
%Cover bare ground: 20		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover:	Crown cover: <1	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Alyogyne hakeifolia</i>	<i>Acacia poliochroa</i>
ALL SPECIES		
<i>Acacia ligulata</i>		
<i>Acacia poliochroa</i>		
<i>Alyogyne hakeifolia</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Asteraceae</i> sp.		
<i>Asteridea athrixioides</i> (A)		
<i>Austrostipa acrociliata</i>		
<i>Austrostipa exilis</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Melaleuca</i> sp. (juvenile)		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Wilsonia humilis</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 48	
Quadrat size: 20m X 20m		
WP: 83	Vegetation group: HS-OS1	
Photo number: 237-239		
Landform: S/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 4/1/UP		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/HC/F		
%Cover leaf litter: 5		
%Cover bare ground: 20		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover:	Crown cover: <1	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Alyogyne hakeifolia</i>	<i>Dodonaea stenozyga</i>
ALL SPECIES		
<i>Acacia hystrix</i> subsp. <i>hystrix</i>		
<i>Alyogyne hakeifolia</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Austrostipa exilis</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Santalum acuminatum</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 49	
Quadrat size: 20m X 20m		
WP: 84	Vegetation group: HS-OS1	
Photo number: 240-242		
Landform: M/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 1/1/UT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/MC/S		
%Cover leaf litter: 5		
%Cover bare ground: 20		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover:	Crown cover: 10-30	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Alyogyne hakeifolia</i>	<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>
ALL SPECIES		
<i>Alyogyne hakeifolia</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Asteridea athrixioides</i> (A)		
<i>Austrostipa acrociliata</i>		
<i>Austrostipa variabilis</i>		
<i>Daviesia argillacea</i>		
<i>Dodonaea stenozyga</i>		
<i>Melaleuca</i> sp. (juvenile)		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 50	
Quadrat size: 20m X 20m		
WP: 85	Vegetation group: HS-OS1	
Photo number: 243-245		
Landform: M/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 5/3/AT		
Rock outcrop (abundance/runoff): 3/3		
Soil (profile/field texture/soil surface): U/ZCL/S		
%Cover leaf litter: 0		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Sedge
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover:	Crown cover: 10-30	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Dodonaea inaequifolia</i>	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Allocasuarina</i> sp. (sterile)		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Austrostipa acrociliata</i>		
<i>Calothamnus quadrifidus</i>		
<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)		
<i>Dodonaea inaequifolia</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Labichea stellata</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca hamata</i>		
<i>Trymalium myrtilus</i> subsp. <i>myrtilus</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 51	
Quadrat size: 20m X 20m		
WP: 86	Vegetation group: HS-OS1	
Photo number: 246-248		
Landform: M/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 2/3/UT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/S		
%Cover leaf litter: 5		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover:	Crown cover: 30-70	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Eucalyptus ?urna</i>	<i>Acacia hystrix</i> subsp. <i>hystrix</i>
ALL SPECIES		
<i>Acacia hystrix</i> subsp. <i>hystrix</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Austrostipa acrociliata</i>		
<i>Daviesia argillacea</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus ?urna</i>		
<i>Santalum acuminatum</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 52	
Quadrat size: 20m X 20m		
WP: 87	Vegetation group: HS-OS1	
Photo number: 249-251		
Landform: M/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 3/2/A		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/HC/S		
%Cover leaf litter: 5		
%Cover bare ground: 40		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover:	Crown cover: 10-30	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Santalum acuminatum</i> <i>Anthocercis anisantha</i> subsp. <i>anisantha</i>	<i>Teucrium</i> sp. Norseman (T.E.H. Aplin 1851)
ALL SPECIES		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Asteridea athrxioides</i> (A)		
<i>Austrostipa acrociliata</i>		
<i>Daviesia benthamii</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Santalum acuminatum</i>		
<i>Teucrium</i> sp. Norseman (T.E.H. Aplin 1851)		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 53	
Quadrat size: 20m X 20m		
WP: 88	Vegetation group: HS-OS1	
Photo number: 252-254		
Landform: M/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 3/2/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/HC/F		
%Cover leaf litter: 5		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 1-3m	Height: 0.5-1m
Crown cover: 10-30	Crown cover: 10-30	Crown cover: <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus ?urna</i>	<i>Alyogyne hakeifolia</i>	<i>Acacia erinacea</i>
ALL SPECIES		
<i>Acacia ligulata</i>		
<i>Acacia erinacea</i>		
<i>Alyogyne hakeifolia</i>		
<i>Austrostipa exilis</i>		
<i>Daviesia argillacea</i>		
<i>Eucalyptus ?urna</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Santalum acuminatum</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 54	
Quadrat size: 20m X 20m		
WP: 90	Vegetation group: HS-EW1	
Photo number: 255-257		
Landform: M/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 3/2/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/HC/S		
%Cover leaf litter: 60		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover:	Crown cover: >70	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Eucalyptus ?urna</i>	<i>Eremophila caerulea</i>
ALL SPECIES		
<i>Acacia ligulata</i>		
<i>Alyogyne hakeifolia</i>		
<i>Daviesia argillacea</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus ?salmonophloia</i>		
<i>Eucalyptus ?urna</i>		
<i>Santalum acuminatum</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 55	
Quadrat size: 20m X 20m		
WP: 91	Vegetation group: HS-MWS1	
Photo number: 216-218		
Landform: C/T/HCR		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 5/4/A		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/S		
%Cover leaf litter: 10		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Sedge
Height: 1-3m	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover: <10	Crown cover: <10	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Eremophila saligna</i>	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Austrostipa acrociliata</i>		
<i>Dodonaea bursariifolia</i>		
<i>Dodonaea inaequifolia</i>		
<i>Eremophila saligna</i>		
<i>Eucalyptus livida</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 56	
Quadrat size: 20m X 20m		
WP: 92	Vegetation group: HS-MWS1	
Photo number: 260-263		
Landform: C/T/HCR		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 6/6/AT		
Rock outcrop (abundance/runoff): 5/3		
Soil (profile/field texture/soil surface): U/ZCL/S		
%Cover leaf litter: 5		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Sedge
Height: 3-6m	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover: <10	Crown cover: 10-30	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Dodonaea inaequifolia</i>	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Dodonaea inaequifolia</i>		
<i>Eucalyptus livida</i>		
<i>Exocarpos sparteus</i>		
<i>Hakea pendens</i> (P3)		
<i>Lepidosperma sanguinolentum</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 57	
Quadrat size: 20m X 20m		
WP: 93	Vegetation group: HS-OS1	
Photo number: 264-267		
Landform: L/B/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 3/3/AT		
Rock outcrop (abundance/runoff): 2/3		
Soil (profile/field texture/soil surface): U/HC/S		
%Cover leaf litter: 10		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 0.5-1m	Height: 0.5-1m
Crown cover:	Crown cover: <1	Crown cover: 30-70
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Santalum acuminatum</i>	<i>Acacia erinacea</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Acacia hystrix</i> subsp. <i>hystrix</i>		
<i>Alyogyne hakeifolia</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Goodenia dyeri</i> (A)		
<i>Melaleuca</i> sp. (juvenile)		
<i>Pimelea microcephala</i>		
<i>Santalum acuminatum</i>		
<i>Sonchus oleraceus</i> (W)		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 58	
Quadrat size: 20m X 20m		
WP: 95	Vegetation group: HS-MWS1	
Photo number: 268-270		
Landform: L/B/HSL		
Land surface/disturbance: 3 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 4/3/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/S		
%Cover leaf litter: 5		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Sedge
Height: 3-6m	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover: <10	Crown cover: <10	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Melaleuca hamata</i>	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Austrostipa acrociliata</i>		
<i>Dodonaea bursariifolia</i>		
<i>Dodonaea inaequifolia</i>		
<i>Eucalyptus livida</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca hamata</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Santalum acuminatum</i>		
<i>Stenanthemum bremerense</i> (P4)		
<i>Westringia cephalantha</i>		
<i>Wurmbea ?tenella</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 59	
Quadrat size: 20m X 20m		
WP: 96	Vegetation group: HS-EW1	
Photo number: 270-272		
Landform: M/M/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 5/4/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 10		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover: <1	Crown cover: >70	Crown cover: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Eucalyptus</i> sp. (juvenile)	<i>Scaevola spinescens</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila psilocalyx</i>		
<i>Eriochiton sclerolaenoides</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Eucalyptus urna</i>		
<i>Olearia muelleri</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Sclerolaena uniflora</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 60	
Quadrat size: 20m X 20m		
WP: 97	Vegetation group: HS-MWS1	
Photo number: 216-218		
Landform: UT/HCR or HSL?		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 5/6/A		
Rock outcrop (abundance/runoff): 5/3		
Soil (profile/field texture/soil surface): U/ZCL/S		
%Cover leaf litter: 5		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover: 10-30	Crown cover: <1	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Austrostipa acrociliata</i>		
<i>Beyeria brevifolia</i>		
<i>Bromus arenarius</i> (sterile) (A)		
<i>Caladenia</i> sp.		
<i>Comesperma volubile</i>		
<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)		
<i>Dianella revoluta</i> var. <i>divaricata</i>		
<i>Eucalyptus livida</i>		
<i>Gastrolobium crassifolium</i>		
<i>Goodenia pinifolia</i>		
<i>Labichea stellata</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 61	
Quadrat size: 20m X 20m		
WP: 98	Vegetation group: HS-EW1	
Photo number: 275-279		
Landform: C/T/HCR		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 3/3/AT		
Rock outcrop (abundance/runoff): 0/3		
Soil (profile/field texture/soil surface): U/ZCL/S		
%Cover leaf litter: 5		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Hummock grass	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover:	Crown cover: >70	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Austrostipa acrociliata</i>	<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>
ALL SPECIES		
<i>Alyogyne hakeifolia</i>		
<i>Anthocercis anisantha</i> subsp. <i>anisantha</i>		
<i>Asteridea athrixioides</i> (A)		
<i>Austrostipa acrociliata</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus</i> sp. (juvenile)		
<i>Gompholobium gompholobioides</i>		
<i>Rhagodia preissii</i> subsp. <i>preissii</i>		
<i>Santalum acuminatum</i>		
<i>Sonchus oleraceus</i> (W)		

Project Name: MVM Project		
Date: 6/09/2013 & 18/03/2014	Botanist: Jim Williams & Pat Harton	
Location: MVM project	Quadrat: 62	
Quadrat size: 20m X 20m		
WP: 99	Vegetation group: HS-MWS1	
Photo number: 280-282		
Landform: C/T/HSL		
Land surface/disturbance: 2 (burnt)		
Coarse fragments on the surface (abundance/size/shape): 5/4/A		
Rock outcrop (abundance/runoff): 3/3		
Soil (profile/field texture/soil surface): U/ZCL/F		
%Cover leaf litter: 5		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Sedge
Height: 1-3m	Height: 0.5-1m	Height: 0.5-1m
Crown cover: <10	Crown cover: <1	Crown cover: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Calothamnus quadrifidus</i>	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Allocasuarina</i> sp. (sterile)		
<i>Calothamnus quadrifidus</i>		
<i>Cryptandra graniticola</i>		
<i>Dampiera angulata</i> subsp. Peak Charles (K.R. Newbey 5402)		
<i>Dodonaea bursariifolia</i>		
<i>Eucalyptus livida</i>		
<i>Gastrolobium crassifolium</i>		
<i>Goodenia pinifolia</i>		
<i>Grevillea oncogyne</i>		
<i>Labichea stellata</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca hamata</i>		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 63	
Quadrat size: 20x20		
WP: 7	Vegetation Group: HS-MWS3	
Photo number: 521/522/523		
Landform: Crest/Summit Surface		
Land surface/disturbance: Limited Clearing (Fire)		
Coarse fragments on the surface (abundance/size/shape): Very; abundant (50-90%)/Coarse gravelly; Large pebbles (20-60mm)/ Angular platy		
Rock outcrop (abundance/runoff): Nil/Moderately Rapid		
Soil (profile/field texture/soil surface): Red/Uniform/Clay loam/Firm		
%Cover leaf litter: 10		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee (<8m)	Growth form: Shrub	Growth form: Sedge
Height: 3-6m	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover %: Sparse (10-30)	Crown cover %: Very Sparse (<10)	Crown cover %: Mid-dense (30-70)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Melaleuca hamata</i>	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Beyeria sulcata</i>		
<i>Dampiera angulata</i>		
<i>Eucalyptus livida</i>		
<i>Exocarpos sparteus</i>		
<i>Hemigenia westringioides</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca cordata</i>		
<i>Melaleuca hamata</i>		
<i>Stenanthemum bremerense</i> (P4)		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 64	
Quadrat size: 20x20		
WP: 120	Vegetation Group: HS-MWS3	
Photo number: 518/519/520		
Landform: Midslope/Middle third/Hillslope		
Land surface/disturbance: Extensive clearing (Burnt)		
Coarse fragments on the surface (abundance/size/shape): Very abundant (50-90%)/Coarse gravelly, large pebbles (20-60mm)/ Rounded		
Rock outcrop (abundance/runoff): Nil/Moderately rapid		
Soil (profile/field texture/soil surface): Brown/Uniform/ Silty Clay loam/ Firm		
%Cover leaf litter: 5		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee (<8m)	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Isolated Plants <1	Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus</i> sp. (Sterile Mallee)	<i>Melaleuca hamata</i>	<i>Dampiera angulata</i>
ALL SPECIES		
<i>Allocasuarina campestris</i>		
<i>Dampiera angulata</i>		
<i>Eucalyptus</i> sp. (Sterile Mallee)		
<i>Gastrolobium parviflorum</i>		
<i>Melaleuca hamata</i>		
<i>Persoonia helix</i>		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 65	
Quadrat size: 20x20		
WP: 122	Vegetation Group: HS-MWS3	
Photo number: 506/507/508		
Landform: Mid slope/Middle third/Hillslope		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Very abundant (50-90%)/ Fine gravelly, small pebbles (2-6mm)/ Subangular		
Rock outcrop (abundance/runoff): Nil/Moderately rapid		
Soil (profile/field texture/soil surface): Light brown/Uniform / Silt clay loam/ Soft		
%Cover leaf litter: 10		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee (<8m)	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover %: Very Sparse (<10)	Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Melaleuca hamata</i>	<i>Stenanthemum bremerense</i> (P4)
ALL SPECIES		
<i>Acacia sphacelata</i> subsp. <i>sphacelata</i>		
<i>Dampiera angulata</i>		
<i>Dodonaea bursariifolia</i>		
<i>Eucalyptus</i> sp. (Sterile)		
<i>Eucalyptus livida</i>		
<i>Glischrocaryon roei</i>		
<i>Goodenia pinifolia</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Leptosema daviesioides</i>		
<i>Melaleuca hamata</i>		
<i>Stenanthemum bremerense</i> (P4)		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 66	
Quadrat size: 20x20		
WP: 124	Vegetation Group: CLP-EW1	
Photo number: 509/510/511		
Landform: Flat/Bottom Third/Valley Flat		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Moderately, many (20-50%)/ Fine gravelly, small pebbles (2-6mm)/ Rounded		
Rock outcrop (abundance/runoff): Nil/Moderately rapid		
Soil (profile/field texture/soil surface): Uniform/Medium clay/Soft		
%Cover leaf litter: 10		
%Cover bare ground: 70		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub Mallee (<8m)	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Isolated Plants <1	Crown cover %: Sparse (10-30)	Crown cover %: Very Sparse (<10)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Eucalyptus</i> sp. (Sterile Mallee)	<i>Melaleuca hamata</i>
ALL SPECIES		
<i>Acacia deficiens</i>		
<i>Acacia erinacea</i>		
<i>Acacia nigripilosa</i> subsp. <i>nigripilosa</i>		
<i>Daviesia benthamii</i>		
<i>Dodonaea bursariifolia</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Eucalyptus</i> sp. (Sterile Mallee)		
<i>Exocarpos aphyllus</i>		
<i>Melaleuca lateriflora</i>		
<i>Melaleuca hamata</i>		
<i>Philothea gardneri</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 67	
Quadrat size: 20x20		
WP: 127	Vegetation Group: HS-MWS3	
Photo number: 512/513/514		
Landform: Midslope/Top third/ Hillslope		
Land surface/disturbance: No effective disturbance (has been burnt)		
Coarse fragments on the surface (abundance/size/shape): No qualifier, common (10-20%)/ Medium gravelly, medium pebbles (6-20mm)/ Angular tabular		
Rock outcrop (abundance/runoff): Nil/Slow		
Soil (profile/field texture/soil surface): Brown/ Uniform/ Silty clay loam/ Firm		
%Cover leaf litter: 60		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee (<8m)	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Sparse (10-30)	Crown cover %: Isolated Plants <1	Crown cover %: Mid-dense (30-70)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Hakea francisiana</i>	<i>Allocasuarina campestris</i>
ALL SPECIES		
<i>Allocasuarina campestris</i>		
<i>Eucalyptus horistes</i>		
<i>Eucalyptus livida</i>		
<i>Gastrolobium parviflorum</i>		
<i>Hakea francisiana</i>		
<i>Hakea subsulcata</i>		
<i>Hibbertia rostellata</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca pungens</i>		
<i>Melaleuca hamata</i>		
<i>Santalum acuminatum</i>		
<i>Stenanthemum bremerense</i> (P4)		
<i>Westringia cephalantha</i>		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 68	
Quadrat size: 20x20		
WP: 133	Vegetation Group: HS-MWS3	
Photo number: 515/516/517		
Landform: Upper slope/ Top third/ Hillslope		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Ironstone/ Very abundant (50-90%)/ medium gravelly, medium pebbles (6-20mm)/ Subangular		
Rock outcrop (abundance/runoff): Nil/no bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Light brown/ Uniform/ Silty clay loam/ Firm		
%Cover leaf litter: 5		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee (<8m)	Growth form: Shrub	Growth form: Sedge
Height: 1-3m	Height: 0.5-1m	Height: 0.5-1m
Crown cover %: Sparse (10-30)	Crown cover %: Very Sparse (<10)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Melaleuca hamata</i>	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Dampiera angulata</i>		
<i>Dodonaea bursariifolia</i>		
<i>Eucalyptus livida</i>		
<i>Gastrolobium parviflorum</i>		
<i>Hemigenia westringioides</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca hamata</i>		
<i>Persoonia coriacea</i>		
<i>Stenanthemum bremerense</i> (P4)		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 69	
Quadrat size: 20x20		
WP: 135	Vegetation Group: CLP-MWS1	
Photo number: 524/525/526		
Landform: Upper slope/ Top third/ Hillslope		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Greenstone/ Very, abundant (50-90%)/ Coarse gravelly, large pebbles (20-60mm)/ Angular		
Rock outcrop (abundance/runoff): Nil/Moderately Rapid		
Soil (profile/field texture/soil surface): Grey/Uniform/Medium Heavy clay/ Firm		
%Cover leaf litter: 10		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Mid-dense (30-70)	Crown cover %: Isolated Plants <1	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Acacia evenulosa</i>	<i>Dodonaea stenozyga</i>
ALL SPECIES		
<i>Acacia evenulosa</i>		
<i>Acacia poliochroa</i>		
<i>Daviesia argillacea</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus urna</i>		
<i>Melaleuca acuminata</i>		
<i>Melaleuca pauperiflora</i>		
<i>Microcybe</i> sp. Windy Hill (P3) (G.F. Craig 6583) (P3)		
<i>Westringia rigida</i>		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 70	
Quadrat size: 20x20		
WP: 137	Vegetation Group: HS-MWS3	
Photo number: 527/528/529/530		
Landform: Upper slope/ Top Third/ Hillslope		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Laterite/ Moderately, many (20-50%)/ Coarse gravelly, large pebbles (20-60mm)/ Angular		
Rock outcrop (abundance/runoff): Nil/Moderately Rapid		
Soil (profile/field texture/soil surface): Brown/Uniform/Silt loam/Firm		
%Cover leaf litter: 5		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee (<8m)	Growth form: Shrub	Growth form: Sedge
Height: 1-3m	Height: 1-3m	Height: 0.25-0.5m
Crown cover %: Very Sparse (<10)	Crown cover %: Very Sparse (<10)	Crown cover %: Mid-dense (30-70)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Melaleuca hamata</i>	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Beyeria sulcata</i>		
<i>Dampiera angulata</i>		
<i>Dodonaea bursariifolia</i>		
<i>Eucalyptus livida</i>		
<i>Gastrolobium parviflorum</i>		
<i>Halgania integerrima</i>		
<i>Hemigenia westringioides</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Leptosema daviesioides</i>		
<i>Melaleuca hamata</i>		
<i>Santalum acuminatum</i>		
<i>Stenanthemum bremerense</i> (P4)		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 71	
Quadrat size: 20x20		
WP: 139	Vegetation Group: HS-MWS2	
Photo number: 25/26/27		
Landform: Upper slope/Top third/hillslope		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Greenstone/Extremely, very abundant (>90%)/ Coarse gravelly, large pebbles (20-60mm) / Subangular		
Rock outcrop (abundance/runoff): Nil/No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Red/Uniform/Sandy clay loam/ Firm		
%Cover leaf litter: 5		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee (<8m)	Growth form: Shrub	Growth form: Tussock Grass
Height: 1-3m	Height: 1-3m	Height: <0.5m
Crown cover %: Very Sparse (<10)	Crown cover %: Sparse (10-30%)	Crown cover %: Sparse (10-30%)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus</i> sp. (Sterile Mallee)	<i>Acacia yorkrakinensis</i>	<i>Schoenus brevisetis</i>
	<i>Duboisia hopwoodii</i>	
ALL SPECIES		
<i>Acacia yorkrakinensis</i>		
<i>Allocasuarina</i> sp. (Sterile)		
<i>Codonocarpus cotinifolius</i>		
<i>Commersonia craurophylla</i>		
<i>Duboisia hopwoodii</i>		
<i>Eucalyptus</i> sp. (Sterile Mallee)		
<i>Halgania integerrima</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Platysace maxwellii</i>		
<i>Schoenus breviculmis</i>		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 72	
Quadrat size: 20x20		
WP: 140	Vegetation Group: HS-MWS2	
Photo number: 28/29/30		
Landform: Upper slope/Top Third/ Hillslope		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Greenstone/Extremely, very abundant (>90%)/ Coarse gravelly, large pebbles (20-60mm) / Subangular		
Rock outcrop (abundance/runoff): Greenstone/ Rocky (10-20%)/ Moderately Rapid		
Soil (profile/field texture/soil surface): Red/ Uniform/ Silty clay loam/ Soft		
%Cover leaf litter: 5		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee (<8m)	Growth form: Shrub	Growth form: Tussock Grass
Height: 1-3m	Height: 1-3m	Height: <0.5m
Crown cover %: Very Sparse (<10)	Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus</i> sp. (Sterile Mallee)	<i>Acacia assimilis</i> subsp. <i>assimilis</i>	<i>Schoenus brevisetis</i>
ALL SPECIES		
<i>Acacia assimilis</i> subsp. <i>assimilis</i>		
<i>Allocasuarina</i> sp. (Sterile)		
<i>Eucalyptus</i> sp. (Sterile Mallee)		
<i>Halgania integerrima</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Platysace maxwellii</i>		
<i>Schoenus breviculmis</i>		
<i>Stenanthemum bremerense</i> (P4)		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 73	
Quadrat size: 20x20		
WP: 147	Vegetation Group: SLP-OS1	
Photo number: 123/124/125		
Landform: Upper slope/ Top third/ Hillslope		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Greenstone/ Moderately, many (20-50%)/ Coarse gravelly, large pebbles (20-60mm)/ Subangular		
Rock outcrop (abundance/runoff): Greenstone/ Rocky (10-20%)/ Moderately rapid		
Soil (profile/field texture/soil surface): Red/ Uniform/ Silty clay loam/ Firm		
%Cover leaf litter: 5		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: N/A	Growth form: Shrub	Growth form: Tussock Grass
Height: N/A	Height: 1-3m	Height: 0.25-0.5m
Crown cover %: N/A	Crown cover %: Sparse (10-30)	Crown cover %: Mid-dense (30-70%)
Dominant taxa:	Dominant taxa:	Dominant taxa:
N/A	<i>Melaleuca hamata</i>	<i>Schoenus brevisetis</i>
ALL SPECIES		
<i>Allocasuarina</i> sp. (Sterile)		
<i>Dampiera angulata</i>		
<i>Halgania integerrima</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Leptosema daviesioides</i>		
<i>Melaleuca hamata</i>		
<i>Schoenus brevisetis</i>		
<i>Stenanthemum bremerense</i> (P4)		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 74	
Quadrat size: 20x20		
WP: 148	Vegetation Group: CLP-MWS1	
Photo number: 41/42/43		
Landform: Lower slope/Footslope		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Quartz/No qualifier, common (10-20%)/ Medium gravelly; medium pebbles (6-20mm)/Angular		
Rock outcrop (abundance/runoff): No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Red/Uniform/Medium clay/soft		
%Cover leaf litter: 5		
%Cover bare ground: 20		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 0.5-1m	Height: 0.5-1m
Crown cover %: Sparse (10-30)	Crown cover %: Isolated Plants <1	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus</i> sp. (Sterile)	<i>Santalum acuminatum</i>	<i>Dampiera angulata</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Acacia</i> sp. (Sterile)		
<i>Dampiera angulata</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus</i> sp. (Sterile)		
<i>Eucalyptus urna</i>		
<i>Santalum acuminatum</i>		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 75	
Quadrat size: 20x20		
WP: 149	Vegetation Group: SLP-OS1	
Photo number: 44/45/46		
Landform: Mid slope/ Middle third		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Greenstone/ Moderately, many (20-50%)/ Coarse gravelly, large pebbles (20-60mm) /Subangular		
Rock outcrop (abundance/runoff): Greenstone/ Rocky (10-20%)/ Moderately rapid		
Soil (profile/field texture/soil surface): Red/ Uniform/ Silty loam/ Firm		
%Cover leaf litter: 5		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee (<8m)	Growth form: Shrub	Growth form: Sedge
Height: 1-3m	Height: 1-3m	Height: <0.25m
Crown cover %: Very Sparse (<10)	Crown cover %: Very Sparse (<10)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus</i> sp. (Sterile Mallee)	<i>Melaleuca hamata</i>	<i>Lepidosperma sanguinolentum</i>
ALL SPECIES		
<i>Allocasuarina</i> sp. (Sterile)		
<i>Eucalyptus</i> sp. (Sterile Mallee)		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca hamata</i>		
<i>Prostanthera grylloana</i>		
<i>Schoenus brevisetis</i>		
<i>Stenanthemum bremerense</i> (P4)		

Project Name: MVM Project		
Date: 2/10/2014 & 2/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 76	
Quadrat size: 20x20		
WP: 155	Vegetation Group: SLP-MWS2	
Photo number: 47/48/49		
Landform: Flat/Valley Flat		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Quartz/ No qualifier, common (10-20%)/ Medium gravelly, medium pebbles (6-20mm)/ Subangular		
Rock outcrop (abundance/runoff): Nil/No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Red/ Duplex/ Medium heavy clay/ Soft		
%Cover leaf litter: 5		
%Cover bare ground: 20		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee (<8m)	Growth form: N/A	Growth form: Hummock grass
Height: 1-3m	Height: N/A	Height: 0.25-0.5m
Crown cover %: Sparse (10-30%)	Crown cover %: N/A	Crown cover %: Very Sparse (<10)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus</i> sp. (Sterile Mallee)	N/A	<i>Triodia scariosa</i>
ALL SPECIES		
<i>Acacia enervia</i> subsp. <i>enervia</i>		
<i>Beyeria brevifolia</i>		
<i>Eucalyptus</i> sp. (Sterile Mallee)		
<i>Eucalyptus</i> sp. (Sterile)		
<i>Halgania integerrima</i>		
<i>Melaleuca lateriflora</i>		
<i>Pultenaea arida</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Triodia scariosa</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project		
Date: 3/10/2014 & 3/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 77	
Quadrat size: 20x20		
WP: 159	Vegetation Group: CLP-MWS1	
Photo number: 50/51/52		
Landform: Mid slope/Middle third/ Hillslope		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): No qualifier, common (10-30%)/ Fine gravelly, small pebbles (2-6mm)/ Subrounded		
Rock outcrop (abundance/runoff): No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Grey/Uniform/Medium heavy clay/ soft		
%Cover leaf litter: 5		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Mid-dense (30-70)	Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Acacia multispicata</i>	<i>Dodonaea stenozyga</i>
ALL SPECIES		
<i>Acacia deficiens</i>		
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)		
<i>Daviesia benthamii</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus urna</i>		
<i>Exocarpos aphyllus</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Melaleuca quadrifaria</i>		

Project Name: MVM Project		
Date: 3/10/2014 & 3/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 78	
Quadrat size: 20x20		
WP: 161	Vegetation Group: CLP-EW1	
Photo number: 53/54/55		
Landform: Mid slope/Middle third/Hillslope		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): No qualifier, common (10-20%)/Fine gravelly, small pebbles (2-6mm)/Subrounded		
Rock outcrop (abundance/runoff): No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Brown/Uniform/medium heavy clay/Firm		
%Cover leaf litter: 25		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form:
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Isolated plants (<1)	Crown cover %: Isolated plants (<1)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Santalum acuminatum</i>	<i>Scaevola spinescens</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Olearia muelleri</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project		
Date: 3/10/2014 & 3/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 79	
Quadrat size: 20x20		
WP: 162	Vegetation Group: CLP-MWS1	
Photo number: 34/35/36		
Landform: Crest/Top third/Hill crest		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Very; abundant (>90%)/cobbly, or cobbles 60-200mm/ Angular tabular		
Rock outcrop (abundance/runoff): Very rocky (20-50%)/Very slow		
Soil (profile/field texture/soil surface): Red/Uniform/Silty clay loam/ Firm		
%Cover leaf litter: 10		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus ?salubris</i>	<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	<i>Dodonaea stenozyga</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Acacia sphacelata</i> subsp. <i>sphacelata</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eremophila interstans</i>		
<i>Eremophila psilocalyx</i>		
<i>Eucalyptus ?eremophila</i>		
<i>Eucalyptus rhomboidea</i> (P4)		
<i>Eucalyptus ?salubris</i>		
<i>Grevillea acuaria</i>		
<i>Santalum acuminatum</i>		
<i>Sclerolaena parviflora</i>		
<i>Templetonia sulcata</i>		
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>		

Project Name: MVM Project		
Date: 3/10/2014 & 3/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 80	
Quadrat size: 20x20		
WP: 163	Vegetation Group: CLP-MWS1	
Photo number: 56/57/58		
Landform: Flat/Middle third/ Valley flat		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): No coarse fragments		
Rock outcrop (abundance/runoff): No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Grey/ Uniform/ Medium heavy clay/ Soft		
%Cover leaf litter: 5		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover %: Mid-dense (30-70)	Crown cover %: Mid-dense (30-70)	Crown cover %: Very Sparse (<10)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Acacia multispicata</i>	<i>Dodonaea stenozyga</i>
ALL SPECIES		
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus urna</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		
<i>Scaevola spinescens</i>		

Project Name: MVM Project		
Date: 3/10/2014 & 3/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 81	
Quadrat size: 20x20		
WP: 164	Vegetation Group: CLP-MWS1	
Photo number: 149/150/151		
Landform: Flat/ Middle third/ Valley flat		
Land surface/disturbance: No effective disturbance		
Coarse fragments on the surface (abundance/size/shape): Pisolites/ Very abundant (50-90%)/ Medium gravelly, medium pebbles (6-20mm)/Subangular		
Rock outcrop (abundance/runoff): Nil/ No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Grey brown/ Uniform/ Medium clay/ Firm		
%Cover leaf litter: 10		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 1-3m	Height: 0.25-0.5m
Crown cover %: Mid-dense (30-70)	Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Eremophila caerulea</i>
ALL SPECIES		
<i>Acacia sphacelata</i> subsp. <i>sphacelata</i>		
<i>Daviesia nematophylla</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus</i> sp. (Sterile Mallee)		
<i>Eucalyptus urna</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Sclerolaena parviflora</i>		

Project Name: MVM Project		
Date: 3/10/2014 & 3/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 82	
Quadrat size: 20x20		
WP: 165	Vegetation Group: SLP-MWS2	
Photo number: 19/20/21		
Landform: Flat/Bottom third/Valley Flat		
Land surface/disturbance: No effective disturbance/ Burnt		
Coarse fragments on the surface (abundance/size/shape): Pisolite/Moderately, many (20-50%)/Medium gravelly, medium pebbles (6-20mm)/ Rounded platy		
Rock outcrop (abundance/runoff): No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Light brown/ Uniform/ Medium clay/ Soft		
%Cover leaf litter: 5		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee (<8m)	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover %: Mid-dense (30-70)	Crown cover %: Very Sparse (<10)	Crown cover %: Very Sparse (<10)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus</i> sp. (Sterile Mallee)	<i>Grevillea huegelii</i>	<i>Eremophila caerulea</i>
ALL SPECIES		
<i>Eremophila caerulea</i>		
<i>Eucalyptus</i> sp. (Sterile Mallee)		
<i>Grevillea huegelii</i>		

Project Name: MVM Project		
Date: 3/10/2014 & 3/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 83	
Quadrat size: 20x20		
WP: 167	Vegetation Group: CLP-EW1	
Photo number: 16/17/18		
Landform: Flat/Middle third/Valley flat		
Land surface/disturbance: No effective disturbance/ Burnt		
Coarse fragments on the surface (abundance/size/shape): Very, abundant (50-90%)/Fine gravelly, small pebbles (2-6mm)/Rounded platy		
Rock outcrop (abundance/runoff): Nil/No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Red/Uniform/Medium heavy clay/Firm		
%Cover leaf litter: 10		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover %: Very Sparse (<10)	Crown cover %: Very Sparse (<10)	Crown cover %: Isolated Plants <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Scaevola spinescens</i>	<i>Olearia muelleri</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Olearia muelleri</i>		
<i>Scaevola spinescens</i>		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project		
Date: 3/10/2014 & 3/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 84	
Quadrat size: 20x20		
WP: 168	Vegetation Group: CLP-EW1	
Photo number: 13/14/15		
Landform: Flat/Middle third/Valley flat		
Land surface/disturbance: No effective disturbance/ Burnt		
Coarse fragments on the surface (abundance/size/shape): Very, abundant (50-90%)/Fine gravelly, small pebbles (2-6mm)/Rounded platy		
Rock outcrop (abundance/runoff): No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Red/Uniform/Medium heavy clay/Firm		
%Cover leaf litter: 5		
%Cover bare ground: 70		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Isolated Plants <1	Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>	<i>Olearia muelleri</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Daviesia benthamii</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus urna</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Olearia muelleri</i>		
<i>Scaevola spinescens</i>		
<i>Sclerolaena parviflora</i>		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		

Project Name: MVM Project		
Date: 3/10/2014 & 3/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 85	
Quadrat size: 20x20		
WP: 169	Vegetation Group: CLP-EW1	
Photo number: 10/11/12		
Landform: Flat/Middle third/Valley flat		
Land surface/disturbance: No effective disturbance/ Burnt		
Coarse fragments on the surface (abundance/size/shape): Moderately, many (20-50%)/Fine gravelly, small pebbles (2-6mm)/Rounded platy		
Rock outcrop (abundance/runoff): No bedrock exposed/ Slow		
Soil (profile/field texture/soil surface): Red brown/Uniform/Medium heavy clay/Firm		
%Cover leaf litter: 10		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub Mallee (<8m)	Growth form: Shrub
Height: 6-12m	Height: 3-6m	Height: 0.25-0.5m
Crown cover %: Very Sparse (<10)	Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Eucalyptus celastroides</i> subsp. <i>virella</i>	<i>Acacia poliochroa</i>
ALL SPECIES		
<i>Acacia poliochroa</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus celastroides</i> subsp. <i>virella</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Olearia muelleri</i>		
<i>Scaevola spinescens</i>		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		

Project Name: MVM Project		
Date: 4/10/2014 & 4/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 86	
Quadrat size: 20x20		
WP: 172	Vegetation Group: CLP-MWS1	
Photo number: 7/8/9		
Landform: Flat/Middle third/Valley Flat		
Land surface/disturbance: Limited Clearing/Burnt		
Coarse fragments on the surface (abundance/size/shape): No coarse fragments		
Rock outcrop (abundance/runoff): No bedrock exposed/Slow		
Soil (profile/field texture/soil surface): Brown/Grey/Uniform/Medium heavy clay/Firm		
%Cover leaf litter: 20		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Mid-dense (30-70)	Crown cover %: Sparse (10-30)	Crown cover %: Very Sparse (<10)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca quadrifaria</i>	<i>Daviesia argillacea</i>
ALL SPECIES		
<i>Boronia inornata</i> subsp. <i>inornata</i>		
<i>Daviesia argillacea</i>		
<i>Eucalyptus urna</i>		
<i>Melaleuca quadrifaria</i>		

Project Name: MVM Project		
Date: 4/10/2014 & 4/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 87	
Quadrat size: 20x20		
WP: 173	Vegetation Group: CLP-MWS1	
Photo number: 4/5/6		
Landform: Flat/Middle third/Valley flat		
Land surface/disturbance: Limited Clearing		
Coarse fragments on the surface (abundance/size/shape): No Coarse fragments		
Rock outcrop (abundance/runoff): No bedrock exposed/ Slow		
Soil (profile/field texture/soil surface): Light brow/Uniform/Medium clay/Firm		
%Cover leaf litter: 20		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Acacia erinacea</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Acacia poliochroa</i>		
<i>Eucalyptus urna</i>		
<i>Grevillea acuaria</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Melaleuca quadrifaria</i>		
<i>Olearia muelleri</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project		
Date: 4/10/2014 & 4/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 88	
Quadrat size: 20x20		
WP: 175	Vegetation Group: CLP-EW1	
Photo number: 1/2/3		
Landform: Flat/Middle third/Valley flat		
Land surface/disturbance: No effective disturbance/ Burnt		
Coarse fragments on the surface (abundance/size/shape): Nil/No coarse fragments		
Rock outcrop (abundance/runoff): No bedrock exposed/ Slow		
Soil (profile/field texture/soil surface): Brown/Medium clay/Firm		
%Cover leaf litter: 20		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Isolated Plants <1	Crown cover %: Very Sparse (<10)	Crown cover %: Very Sparse (<10)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Senna artemisioides</i> subsp. <i>filifolia</i>	<i>Dodonaea stenozyga</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Acacia poliochroa</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Olearia muelleri</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		

Project Name: MVM Project		
Date: 4/10/2014 & 4/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 89	
Quadrat size: 20x20		
WP: 178	Vegetation Group: CLP-EW1	
Photo number: 540/541/542		
Landform: Simple slope/Middle third/Hillslope		
Land surface/disturbance: Burnt		
Coarse fragments on the surface (abundance/size/shape): Ironstone pisolite/ Moderately, many (20-50%)/Fine gravelly, small pebbles (2-6mm)/Rounded platy		
Rock outcrop (abundance/runoff): No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Light brown/Uniform/Medium clay/Firm		
%Cover leaf litter: 5		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover %: Sparse (10-30)	Crown cover %: Very Sparse (<10)	Crown cover %: Very Sparse (<10)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Gompholobium gompholobioides</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus transcontinentalis</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Gompholobium gompholobioides</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Olearia muelleri</i>		
<i>Santalum acuminatum</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project		
Date: 4/10/2014 & 4/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 90	
Quadrat size: 20x20		
WP: 182	Vegetation Group: CLP-MWS1	
Photo number: 537/538/539		
Landform: Flat/Middle third/Valley flat		
Land surface/disturbance: No effective disturbance		
Coarse fragments on the surface (abundance/size/shape): No coarse fragments		
Rock outcrop (abundance/runoff): No bedrock exposed/ Very slow		
Soil (profile/field texture/soil surface): Brown/Uniform/Medium clay/Firm		
%Cover leaf litter: 80		
%Cover bare ground: 90		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Mid-dense (30-70)	Crown cover %: Mid-dense (30-70)	Crown cover %: Very Sparse (<10)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Acacia poliochroa</i>
ALL SPECIES		
<i>Acacia poliochroa</i>		
<i>Boronia inornata</i> subsp. <i>inornata</i>		
<i>Daviesia argillacea</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus salubris</i>		
<i>Eucalyptus urna</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		

Project Name: MVM Project		
Date: 4/10/2014 & 4/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 91	
Quadrat size: 20x20		
WP: 183	Vegetation Group: CLP-MWS1	
Photo number: 533/534/535		
Landform: Flat/Middle third/Valley flat		
Land surface/disturbance: No effective disturbance/ Burnt		
Coarse fragments on the surface (abundance/size/shape): No coarse fragments		
Rock outcrop (abundance/runoff): No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Red/Uniform/Medium clay/Firm		
%Cover leaf litter: 10		
%Cover bare ground: 80		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: Dense (>70)	Crown cover %: Sparse (10-30)	Crown cover %: Mid-dense (30-70)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Daviesia argillacea</i>	<i>Dodonaea stenozyga</i>
ALL SPECIES		
<i>Acacia deficiens</i>		
<i>Acacia erinacea</i>		
<i>Daviesia argillacea</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i>		
<i>Eucalyptus rhomboidea</i> (P4)		
<i>Eucalyptus salubris</i>		
<i>Eucalyptus urna</i>		
<i>Eucalyptus livida</i>		
<i>Exocarpos aphyllus</i>		
<i>Melaleuca cliffortioides</i>		
<i>Melaleuca acuminata</i>		

Project Name: MVM Project		
Date: 4/10/2014 & 4/05/2015	Botanist: Jim Williams and Andrea Williams	
Location: MVM Project	Quadrat: 92	
Quadrat size: 20x20		
WP: 130	Vegetation Group: CLP-EW1	
Photo number: 98/99/100		
Landform: Upper slope/Top third/Hillslope		
Land surface/disturbance: Extensive clearing (burnt)		
Coarse fragments on the surface (abundance/size/shape): Ironstone/Very abundant(50-90%)/ Medium gravelly, medium pebbles (20-60mm) / Subangular		
Rock outcrop (abundance/runoff): Nil/ No bedrock exposed/ Moderately rapid		
Soil (profile/field texture/soil surface): Brown/Uniform/Silty clay loam/Firm		
%Cover leaf litter: 5		
%Cover bare ground: 60		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover %: Isolated Plants <1	Crown cover %: Sparse (10-30)	Crown cover %: Sparse (10-30)
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Melaleuca hamata</i>	<i>Acacia poliochroa</i>
ALL SPECIES		
<i>Acacia deficiens</i>		
<i>Acacia erinacea</i>		
<i>Acacia nigripilosa</i> subsp. <i>nigripilosa</i>		
<i>Acacia poliochroa</i>		
<i>Dodonaea bursariifolia</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus livida</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Exocarpos aphyllus</i>		
<i>Grevillea huegelii</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca hamata</i>		
<i>Pultenaea arida</i>		
<i>Santalum acuminatum</i>		
<i>Stenanthemum bremerense</i> (P4)		
<i>Westringia cephalantha</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: SLP-MWS1		
Quadrat No: 93	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 658/659/660
Zone: 51H	Easting: 317314	Northing: 6399925
Altitude: 386m	Fire (yrs): >10	Health rating: good
Landform: flat/middle/ valley flat		
Coarse fragments on the surface: common/medium gravelly/rounded		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/Loamy sand/ firm		
%Cover leaf litter: 20%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee	Growth form: Shrub	Growth form: Shrub
Height: <3m	Height: 1-3m	Height: 0.5-1m
Crown cover %: 10-30	Crown cover %:<10	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus eremophila</i>	<i>Melaleuca hamata</i>	<i>Melaleuca calyptroides</i>
ALL SPECIES		
<i>Cyathostemon ambiguus</i>		
<i>Darwinia inconspicua</i>		
<i>Drummondita hassellii</i>		
<i>Eucalyptus eremophila</i>		
<i>Exocarpos sparteus</i>		
<i>Isopogon scabriusculus</i> subsp. <i>pubifloris</i>		
<i>Lepidosperma diurnum</i>		
<i>Leptomeria preissiana</i>		
<i>Melaleuca calyptroides</i>		
<i>Melaleuca hamata</i>		
<i>Pimelea angustifolia</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: CLP-MWS2		
Quadrat No: 94	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 665/666/667
Zone: 51H	Easting: 315797	Northing: 6400845
Altitude: 377m	Fire (yrs): >20	Health rating: very good
Landform: flat/middle/ valley flat		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium clay/ firm		
%Cover leaf litter: 15%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: <1	Crown cover %: 30-70	Crown cover %: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salubris</i>	<i>Melaleuca lateriflora</i>	<i>Melaleuca calyptroides</i>
ALL SPECIES		
<i>Daviesia aphylla</i>		
<i>Eucalyptus salubris</i>		
<i>Eucalyptus urna</i>		
<i>Grevillea oncogyne</i>		
<i>Melaleuca calyptroides</i>		
<i>Melaleuca cardiophylla</i>		
<i>Melaleuca lateriflora</i>		
<i>Melaleuca quadrifaria</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: CLP-EW1		
Quadrat No: 95	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 670/671/672
Zone: 51H	Easting: 314356	Northing: 6401382
Altitude: 359m	Fire (yrs): >40	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: common/medium gravelly/angular tabular		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium clay/ firm		
%Cover leaf litter: 30%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub mallee	Growth form: Shrub
Height: 6-12m	Height: 3-6m	Height: 0.5-1m
Crown cover %: <1	Crown cover %: 10-30	Crown cover %: 30-70
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Eucalyptus eremophila</i>	<i>Eremophila caerulea</i> subsp. <i>caerulea</i>
ALL SPECIES		
<i>Acacia nyssophylla</i>		
<i>Eremophila caerulea</i> subsp. <i>caerulea</i>		
<i>Eremophila psilocalyx</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus pterocarpa</i> (P4)		
<i>Eucalyptus salmonophloia</i>		
<i>Eucalyptus tenuis</i>		
<i>Grevillea acuaria</i>		
<i>Olearia muelleri</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Westringia cephalantha</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: CLP-EW1		
Quadrat No: 96	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 658/659/670
Zone: 51H	Easting: 312909	Northing: 6401524
Altitude: 352m	Fire (yrs): <10	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium clay/ firm		
%Cover leaf litter: 5%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee	Growth form: Shrub	Growth form: Shrub
Height: <3m	Height: 1-3m	Height: 0.5-1m
Crown cover %: 30-70	Crown cover %:<10	Crown cover %: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus cylindriflora</i>	<i>Santalum acuminatum</i>	<i>Melaleuca calyptroides</i>
<i>Eucalyptus diptera</i>		
ALL SPECIES		
<i>Acacia crassuloides</i>		
<i>Daviesia aphylla</i>		
<i>Eucalyptus cylindriflora</i>		
<i>Eucalyptus diptera</i>		
<i>Melaleuca calyptroides</i>		
<i>Melaleuca lateriflora</i>		
<i>Santalum acuminatum</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: CLP-MWS2		
Quadrat No: 97	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 681/682/683
Zone: 51H	Easting: 310842	Northing: 6400384
Altitude: 372m	Fire (yrs): >10	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/light medium clay/ firm		
%Cover leaf litter: 5%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee	Growth form: Shrub	Growth form:
Height: 3-6m	Height: 1-3m	Height:
Crown cover %: 30-70	Crown cover %: 30-70	Crown cover %:
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus</i> sp. (sterile)	<i>Melaleuca lateriflora</i>	
ALL SPECIES		
<i>Daviesia aphylla</i>		
<i>Eucalyptus</i> sp. (sterile)		
<i>Grevillea oncogyne</i>		
<i>Melaleuca calyptroides</i>		
<i>Melaleuca eleuterostachya</i>		
<i>Melaleuca lateriflora</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: SLP-MWS1		
Quadrat No: 98	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 684/685/686
Zone: 51H	Easting: 309908	Northing: 6400622
Altitude: 376m	Fire (yrs): <10	Health rating: good
Landform: flat/middle/ valley flat		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/silty clay loam/ firm		
%Cover leaf litter: 5%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee	Growth form: Shrub	Growth form: Shrub
Height: <3m	Height: 1-3m	Height: 0.5-1m
Crown cover %: <10	Crown cover %: 30-70	Crown cover %: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus grossa</i>	<i>Melaleuca hamata</i>	<i>Cryptandra minutifolia</i>
ALL SPECIES		
<i>Cryptandra minutifolia</i>		
<i>Daviesia aphylla</i>		
<i>Drummondita hassellii</i>		
<i>Eucalyptus grossa</i>		
<i>Hibbertia gracilipes</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca calyptroides</i>		
<i>Melaleuca hamata</i>		
<i>Melaleuca lateriflora</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-EW1		
Quadrat No: 99	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 694/695/696
Zone: 51H	Easting: 307251	Northing: 6400342
Altitude: 348m	Fire (yrs): <10	Health rating: good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium heavy clay/ firm		
%Cover leaf litter: 5%		
%Cover bare ground: 40%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: <3m	Height: 1-3m	Height: 0.5-1m
Crown cover %: <1	Crown cover %: 10-30	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salubris</i>	<i>Exocarpos aphyllus</i>	<i>Acacia poliochroa</i>
ALL SPECIES		
<i>Acacia intricata</i>		
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)		
<i>Acacia poliochroa</i>		
<i>Acacia sulcata</i> var. <i>platyphylla</i>		
<i>Austrostipa hemipogon</i>		
<i>Daviesia aphylla</i>		
<i>Eremophila caerulea</i> subsp. <i>caerulea</i>		
<i>Eucalyptus salubris</i>		
<i>Eucalyptus urna</i>		
<i>Exocarpos aphyllus</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-EW1		
Quadrat No: 100	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 702/703/704
Zone: 51H	Easting: 304706	Northing: 6399751
Altitude: 332m	Fire (yrs): <10	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium heavy clay/ firm		
%Cover leaf litter: 20%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub mallee	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: <1	Crown cover %:<1	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Eucalyptus ?eremophila</i>	<i>Acacia merrallii</i>
ALL SPECIES		
<i>Acacia camptoclada</i>		
<i>Acacia erinacea</i>		
<i>Acacia merrallii</i>		
<i>Eremophila caerulea</i> subsp. <i>caerulea</i>		
<i>Eucalyptus ?eremophila</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Grevillea acuaria</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: CLP-MWS2		
Quadrat No: 101	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 705/706/707
Zone: 51H	Easting: 301565	Northing: 6400625
Altitude: 316m	Fire (yrs): >20	Health rating: very good
Landform: flat/middle/ valley flat		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium clay/ firm		
%Cover leaf litter: 30%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee	Growth form: Shrub	Growth form: Shrub
Height: 1-3m	Height: 1-3m	Height: 0.5-1m
Crown cover %: 30-70	Crown cover %: 5-10	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus cylindrocarpa</i>	<i>Grevillea oncogyne</i>	<i>Grevillea huegelii</i>
		<i>Westringia cephalantha</i>
ALL SPECIES		
<i>Acacia camptoclada</i>		
<i>Acacia eremophila</i>		
<i>Acacia jennerae</i>		
<i>Daviesia argillacea</i>		
<i>Eucalyptus cylindrocarpa</i>		
<i>Grevillea huegelii</i>		
<i>Grevillea oncogyne</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Triodia irritans</i>		
<i>Westringia cephalantha</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-EW1		
Quadrat No: 102	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 710/711/712
Zone: 51H	Easting: 298940	Northing: 6400214
Altitude: 315m	Fire (yrs): <10	Health rating: good
Landform: flat/middle/ valley flat		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium heavy clay/ soft		
%Cover leaf litter: 5%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee	Growth form:	Growth form: Shrub
Height: 1-3m	Height:	Height: 0.5-1m
Crown cover %: 10-30	Crown cover %:	Crown cover %: 30-70
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus</i> sp. (sterile)		<i>Melaleuca</i> sp. (sterile)
ALL SPECIES		
<i>Acacia intricata</i>		
<i>Acacia merrallii</i>		
<i>Boronia ternata</i> var. <i>austrofoliosa</i>		
<i>Bossiaea barbarae</i>		
<i>Coopernookia strophiolata</i>		
<i>Daviesia argillacea</i>		
<i>Eucalyptus</i> sp. (sterile)		
<i>Euryomyrtus maidenii</i>		
<i>Halgania integerrima</i>		
<i>Melaleuca hamata</i>		
<i>Melaleuca</i> sp. (sterile)		
<i>Melaleuca thyoides</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CD-CSSSF1		
Quadrat No: 103	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 715/716/717
Zone: 51H	Easting: 296417	Northing: 6400370
Altitude: 305m	Fire (yrs): nil	Health rating: good
Landform: Closed depression/bottom/ playa		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/Loamy sand/ firm		
%Cover leaf litter: 5%		
%Cover bare ground: 30%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee	Growth form: Chenopod Shrub	Growth form: Forb
Height:	Height: 0.25-0.5m	Height: <0.25m
Crown cover %:	Crown cover %: 10-30	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Tecticornia indica</i> subsp. <i>bidens</i>	<i>Disphyma crassifolium</i>
ALL SPECIES		
<i>Disphyma crassifolium</i>		
<i>Frankenia tetrapetala</i>		
<i>Tecticornia indica</i> subsp. <i>bidens</i>		
<i>Tecticornia lylei</i>		
<i>Tecticornia pergranulata</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 08/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: CD-CSSSF1		
Quadrat No: 104	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 718/719/720
Zone: 51H	Easting: 295333	Northing: 6400501
Altitude: 447m	Fire (yrs): nil	Health rating: good
Landform: Closed depression/bottom/ playa		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/heavy clay/ firm		
%Cover leaf litter: 5%		
%Cover bare ground: 30%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Chenopod Shrub	Growth form: Forb
Height:	Height: 0.25-0.5m	Height: <0.25m
Crown cover %:	Crown cover %: 10-30	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Tecticornia indica</i> subsp. <i>bidens</i>	<i>Disphyma crassifolium</i>
ALL SPECIES		
<i>Atriplex vesicaria</i>		
<i>Disphyma crassifolium</i>		
<i>Eragrostis falcata</i>		
<i>Lawrenzia squamata</i>		
<i>Tecticornia indica</i> subsp. <i>bidens</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 09/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: CLP-MWS2		
Quadrat No: 105	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 4/5/6
Zone: 51H	Easting: 317990	Northing: 6400604
Altitude: 374m	Fire (yrs): >20	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/Light medium clay/ firm		
%Cover leaf litter: 30%		
%Cover bare ground: 10%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: 30-70	Crown cover %: 10-30	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus cylindriflora</i>	<i>Melaleuca hamata</i>	<i>Dodonaea bursariifolia</i>
ALL SPECIES		
<i>Dodonaea bursariifolia</i>		
<i>Eucalyptus cylindriflora</i>		
<i>Grevillea acuaria</i>		
<i>Grevillea oncogyne</i>		
<i>Melaleuca calyptroides</i>		
<i>Melaleuca hamata</i>		
<i>Melaleuca lateriflora</i>		
<i>Olearia subspicata</i>		
<i>Santalum acuminatum</i>		
<i>Spyridium mucronatum</i> subsp. <i>mucronatum</i>		

Project Name: MVM Project-Haul Road		
Date: 19/04/2017 & 09/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: CLP-MWS1		
Quadrat No: 106	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 9/10/11
Zone: 51H	Easting: 319408	Northing: 6401384
Altitude: 367m	Fire (yrs): >20	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium clay/ firm		
%Cover leaf litter: 5%		
%Cover bare ground: 30%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: <0.5m
Crown cover %: 10-30	Crown cover %: >70	Crown cover %: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus eremophila</i>	<i>Melaleuca johnsonii</i>	<i>Daviesia benthamii</i>
<i>Eucalyptus urna</i>	<i>Melaleuca sparsiflora</i>	
ALL SPECIES		
<i>Daviesia aphylla</i>		
<i>Daviesia benthamii</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus urna</i>		
<i>Melaleuca eleuterostachya</i>		
<i>Melaleuca johnsonii</i>		
<i>Melaleuca lateriflora</i>		
<i>Melaleuca sparsiflora</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 09/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: SLP-MWS1		
Quadrat No: 107	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 14/15/16
Zone: 51H	Easting: 320536	Northing: 6400903
Altitude: 380m	Fire (yrs): <10	Health rating: good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/sand/ firm		
%Cover leaf litter: 5%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form:
Height: <3m	Height: 0.5-1m	Height:
Crown cover %:<10	Crown cover %: 10-30	Crown cover %:
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus</i> sp. (sterile)	<i>Melaleuca hamata</i>	
ALL SPECIES		
<i>Acacia acanthaster</i>		
<i>Acacia assimilis</i> subsp. <i>assimilis</i>		
<i>Bossiaea flexuosa</i> (P3)		
<i>Chamelaucium</i> sp. ?Bendering (T.J. Alford 110)		
<i>Ericomyrtus serpyllifolia</i>		
<i>Eucalyptus</i> sp. (sterile)		
<i>Grevillea cagiana</i>		
<i>Hibbertia gracilipes</i>		
<i>Lepidosperma diurnum</i>		
<i>Lysinema ciliatum</i>		
<i>Melaleuca ?villosisepala</i>		
<i>Melaleuca cordata</i>		
<i>Melaleuca hamata</i>		
<i>Persoonia teretifolia</i>		
<i>Pimelea angustifolia</i>		
<i>Pimelea suaveolens</i> subsp. <i>flava</i>		
<i>Santalum acuminatum</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 09/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: SLP-MWS1		
Quadrat No: 108	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 19/20/21
Zone: 51H	Easting: 322397	Northing: 6400387
Altitude: 376m	Fire (yrs): <10	Health rating: good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/Loamy sand/ firm		
%Cover leaf litter: 5%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub mallee	Growth form: Shrub	Growth form: Shrub
Height: <3m	Height: 1-3m	Height: 0.25-0.5m
Crown cover %:<10	Crown cover %: 10-30	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus eremophila</i>	<i>Melaleuca hamata</i>	<i>Melaleuca johnsonii</i>
ALL SPECIES		
<i>Cassutha melantha</i> (A)		
<i>Daviesia aphylla</i>		
<i>Dillwynia</i> sp. (sterile)		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus grossa</i>		
<i>Exocarpos aphyllus</i>		
<i>Grevillea acuaria</i>		
<i>Grevillea cagiana</i>		
<i>Hakea erecta</i>		
<i>Hibbertia gracilipes</i>		
<i>Lepidosperma drummondii</i>		
<i>Melaleuca cardiophylla</i>		
<i>Melaleuca hamata</i>		
<i>Melaleuca johnsonii</i>		
<i>Melaleuca lateriflora</i>		
<i>Pimelea suaveolens</i> subsp. <i>flava</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 09/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-MWS1		
Quadrat No: 109	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 24/25/26
Zone: 51H	Easting: 325996	Northing: 6400235
Altitude: 354m	Fire (yrs): nil	Health rating: good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium clay/ firm		
%Cover leaf litter: 30%		
%Cover bare ground: 30%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover %: <1	Crown cover %:<70	Crown cover %: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Exocarpos aphyllus</i>
ALL SPECIES		
<i>Dodonaea bursariifolia</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Exocarpos aphyllus</i>		
<i>Melaleuca eleuterostachya</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Melaleuca sparsiflora</i>		
<i>Olearia muelleri</i>		
<i>Santalum acuminatum</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 09/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: CLP-EW1		
Quadrat No: 110	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 658/659/670
Zone: 51H	Easting: 329524	Northing: 6400310
Altitude: 326m	Fire (yrs): <10	Health rating: good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/heavy clay/ firm		
%Cover leaf litter: 20%		
%Cover bare ground: 40%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form:	Growth form: Shrub
Height: 6-12m	Height:	Height: 0.5-1m
Crown cover %: <1	Crown cover %:	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>		<i>Dodonaea stenozyga</i>
		<i>Westringia cephalantha</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Acacia intricata</i>		
<i>Acacia tetraptera</i>		
<i>Daviesia argillacea</i>		
<i>Daviesia articulata</i>		
<i>Dodonaea stenozyga</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Eucalyptus</i> sp. (sterile)		
<i>Glischrocaryon flavescens</i>		
<i>Gompholobium gompholobioides</i>		
<i>Grevillea acuaria</i>		
<i>Grevillea oncogyne</i>		
<i>Melaleuca lateriflora</i>		
<i>Pultenaea arida</i>		
<i>Santalum acuminatum</i>		
<i>Westringia cephalantha</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 09/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: CLP-MWS2		
Quadrat No: 111	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 34/35/36
Zone: 51H	Easting: 332202	Northing: 6400305
Altitude: 327m	Fire (yrs): <10	Health rating: good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/sandy loam/ firm		
%Cover leaf litter: 10%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee	Growth form: Shrub	Growth form: Shrub
Height: <3m	Height: 1-3m	Height: 0.5-1m
Crown cover %: 10-30	Crown cover %:10-30	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus livida</i>	<i>Melaleuca hamata</i>	<i>Halgania integerrima</i>
ALL SPECIES		
<i>Acacia erinacea</i>		
<i>Cyathostemon ambiguus</i>		
<i>Eucalyptus livida</i>		
<i>Grevillea acuaria</i>		
<i>Halgania integerrima</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Melaleuca hamata</i>		
<i>Westringia cephalantha</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 09/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-MWS2		
Quadrat No: 112	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 37/38/39
Zone: 51H	Easting: 336893	Northing: 6401824
Altitude: 313m	Fire (yrs): >20	Health rating: good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/Loamy sand/ firm		
%Cover leaf litter: 30%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: 10-30	Crown cover %:<10	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus eremophila</i>	<i>Santalum acuminatum</i>	<i>Westringia cephalantha</i>
ALL SPECIES		
<i>Daviesia aphylla</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila psilocalyx</i>		
<i>Eucalyptus eremophila</i>		
<i>Melaleuca acuminata</i>		
<i>Melaleuca hamata</i>		
<i>Olearia muelleri</i>		
<i>Santalum acuminatum</i>		
<i>Westringia cephalantha</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 09/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-EW1		
Quadrat No: 113	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 43/44/45
Zone: 51H	Easting: 342546	Northing: 6400640
Altitude: 269m	Fire (yrs): >50	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium clay/ firm		
%Cover leaf litter: 30%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.25-.5m
Crown cover %: 10-30	Crown cover %:<1	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Eremophila caerulea</i> subsp. <i>caerulea</i>
ALL SPECIES		
<i>Alyxia buxifolia</i>		
<i>Eremophila caerulea</i> subsp. <i>caerulea</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Melaleuca eleuterostachya</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Microcybe multiflora</i> subsp. <i>multiflora</i>		
<i>Olearia muelleri</i>		
<i>Phebalium filifolium</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 09/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-EW1		
Quadrat No: 114	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 49/50/51
Zone: 51H	Easting: 347515	Northing: 6398673
Altitude: 252m	Fire (yrs): >50	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium clay/ firm		
%Cover leaf litter: 50%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover %: 10-30	Crown cover %:<1	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus transcontinentalis</i>	<i>Santalum acuminatum</i>	<i>Scaevola spinescens</i>
ALL SPECIES		
<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i>		
<i>Acacia colletioides</i>		
<i>Acacia merrallii</i>		
<i>Alyxia buxifolia</i>		
<i>Bossiaea leptacantha</i>		
<i>Dianella revoluta</i> var. <i>divaricata</i>		
<i>Eremophila caerulea</i> subsp. <i>caerulea</i>		
<i>Eucalyptus transcontinentalis</i>		
<i>Eucalyptus yilgarnensis</i>		
<i>Exocarpos aphyllus</i>		
<i>Gahnia ancistrophylla</i>		
<i>Olearia muelleri</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		
<i>Triodia irritans</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 10/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: CLP-EW1		
Quadrat No: 115	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 56/57/58
Zone: 51H	Easting: 349075	Northing: 6397708
Altitude: 244m	Fire (yrs): >40	Health rating: good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/sandy clay/ firm		
%Cover leaf litter: 30%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub mallee	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: 10-30	Crown cover %:<10	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus transcontinentalis</i>	<i>Eucalyptus eremophila</i>	<i>Daviesia aphylla</i>
ALL SPECIES		
<i>Acacia merrallii</i>		
<i>Alyxia buxifolia</i>		
<i>Daviesia aphylla</i>		
<i>Eremophila caerulea</i> subsp. <i>caerulea</i>		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus oleosa</i>		
<i>Eucalyptus transcontinentalis</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Lomandra effusa</i>		
<i>Melaleuca hamata</i>		
<i>Olearia muelleri</i>		
<i>Scaevola spinescens</i>		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		
<i>Triodia irritans</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 10/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-EW1		
Quadrat No: 116	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 59/60/61
Zone: 51H	Easting: 350677	Northing: 6396555
Altitude: 249m	Fire (yrs): >40	Health rating: good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium heavy clay/ firm		
%Cover leaf litter: 60%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 1-3m	Height: 0.5-1m
Crown cover %: <10	Crown cover %:<1	Crown cover %: 30-70
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salmonophloia</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Scaevola spinescens</i>
ALL SPECIES		
<i>Acacia colletioides</i>		
<i>Alyxia buxifolia</i>		
<i>Eremophila ionantha</i>		
<i>Eucalyptus salmonophloia</i>		
<i>Eucalyptus yilgarnensis</i>		
<i>Exocarpos aphyllus</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Scaevola spinescens</i>		
<i>Senna artemisioides</i> subsp. <i>filifolia</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 10/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: SLP-EW1		
Quadrat No: 117	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 62/63/64
Zone: 51H	Easting: 351226	Northing: 6396346
Altitude: 263m	Fire (yrs): >40	Health rating: good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/Loamy sand/ soft		
%Cover leaf litter: 50%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Sedge
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover %: 10-30	Crown cover %:<1	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salicola</i>	<i>Acacia jennerae</i>	<i>Gahnia ancistrophylla</i>
ALL SPECIES		
<i>Acacia jennerae</i>		
<i>Eremophila caerulea</i> subsp. <i>caerulea</i>		
<i>Eucalyptus salicola</i>		
<i>Gahnia ancistrophylla</i>		
<i>Lepidosperma sanguinolentum</i>		
<i>Lomandra effusa</i>		
<i>Marianthus bicolor</i>		
<i>Melaleuca eleuterostachya</i>		
<i>Olearia muelleri</i>		
<i>Olearia ramosissima</i>		
<i>Phebalium filifolium</i>		
<i>Scaevola spinescens</i>		
<i>Westringia rigida</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 10/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-EW1		
Quadrat No: 118	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 65/66/67
Zone: 51H	Easting: 351635	Northing: 6396222
Altitude: 264m	Fire (yrs): >40	Health rating: good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/Loamy sand/ firm		
%Cover leaf litter: 30%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub Mallee	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: 10-30	Crown cover %:<10	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus urna</i>	<i>Santalum acuminatum</i>	<i>Cratystylis conocephala</i>
ALL SPECIES		
<i>Acacia colletioides</i>		
<i>Acacia merrallii</i>		
<i>Austrostipa hemipogon</i>		
<i>Boronia inornata</i> subsp. <i>inornata</i>		
<i>Cratystylis conocephala</i>		
<i>Dodonaea stenozyga</i>		
<i>Eremophila caerulea</i> subsp. <i>caerulea</i>		
<i>Eucalyptus urna</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Santalum acuminatum</i>		
<i>Scaevola spinescens</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 10/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-EW1		
Quadrat No: 119	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 68/69/70
Zone: 51H	Easting: 353587	Northing: 6395427
Altitude: 254m	Fire (yrs): >40	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium heavy clay/ firm		
%Cover leaf litter: 10%		
%Cover bare ground: 30%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 6-12m	Height: 3-6m	Height: 0.25-0.5m
Crown cover %: 10-30	Crown cover %:10-30	Crown cover %: 30-70
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus longicornis</i>	<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	<i>Eremophila caerulea</i> subsp. <i>caerulea</i>
ALL SPECIES		
<i>Acacia acanthoclada</i> subsp. <i>acanthoclada</i>		
<i>Eremophila caerulea</i> subsp. <i>caerulea</i>		
<i>Eucalyptus longicornis</i>		
<i>Grevillea huegelii</i>		
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>		
<i>Microcybe multiflora</i> subsp. <i>multiflora</i>		
<i>Scaevola restiacea</i> subsp. <i>restiacea</i>		

Project Name: MVM Project-Haul Road		
Date: 20/04/2017 & 10/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: SLP-EW1		
Quadrat No: 120	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 2/3/4
Zone: 51H	Easting: 358732	Northing: 6393384
Altitude: 239m	Fire (yrs): >40	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/ sandy clay loam/ soft		
%Cover leaf litter: 30%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Sedge
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover %: 10-30	Crown cover %:<1	Crown cover %: 30-70
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salicola</i>	<i>Phebalium filifolium</i>	<i>Gahnia ancistrophylla</i>
ALL SPECIES		
<i>Eucalyptus eremophila</i>		
<i>Eucalyptus salicola</i>		
<i>Eucalyptus transcontinentalis</i>		
<i>Gahnia ancistrophylla</i>		
<i>Lomandra effusa</i>		
<i>Olearia muelleri</i>		
<i>Olearia ramosissima</i>		
<i>Phebalium filifolium</i>		

Project Name: MVM Project-Haul Road		
Date: 21/04/2017 & 10/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-EW1		
Quadrat No: 121	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 5/6/7
Zone: 51H	Easting: 356086	Northing: 6394538
Altitude: 237m	Fire (yrs): >40	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/sandy clay loam/ firm		
%Cover leaf litter: 30%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 0.5-1m	Height: 0.25-0.5m
Crown cover %: 10-30	Crown cover %:<1	Crown cover %: <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus transcontinentalis</i>	<i>Olearia ramosissima</i>	<i>Lomandra effusa</i>
ALL SPECIES		
<i>Austrostipa elegantissima</i>		
<i>Austrostipa nitida</i>		
<i>Eucalyptus oleosa</i>		
<i>Eucalyptus transcontinentalis</i>		
<i>Lomandra effusa</i>		
<i>Olearia ramosissima</i>		
<i>Podolepis capillaris</i> (A)		
<i>Waitzia fitzgibbonii</i> (A)		

Project Name: MVM Project-Haul Road		
Date: 21/04/2017 & 10/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CLP-EW1		
Quadrat No: 122	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 37/38/39
Zone: 51H	Easting: 364214	Northing: 6391053
Altitude: 236m	Fire (yrs): 40+	Health rating: very good
Landform: flat/middle/ plain		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ slow		
Soil (profile/field texture/soil surface): Uniform/medium clay/ firm		
%Cover leaf litter: 30%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 3-6m	Height: 236m	Height: 0.5-1m
Crown cover %: 10-30	Crown cover %:<10	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus dundasii</i>	<i>Beyeria sulcata</i> var. <i>brevipes</i>	<i>Eremophila caerulea</i> subsp. <i>caerulea</i>
ALL SPECIES		
<i>Acacia merrallii</i>		
<i>Beyeria sulcata</i> var. <i>brevipes</i>		
<i>Eremophila caerulea</i> subsp. <i>caerulea</i>		
<i>Eucalyptus dundasii</i>		
<i>Halgania andromedifolia</i>		
<i>Scaevola spinescens</i>		

Project Name: MVM Project-Haul Road		
Date: 21/04/2017 & 10/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: G-H1		
Quadrat No: 123	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 4/5/6
Zone: 51H	Easting: 314565	Northing: 6401266
Altitude: 363m	Fire (yrs): Nil	Health rating: very good
Landform: flat/middle/ rock flat		
Coarse fragments on the surface: Moderately; many/ fine gravelly; small pebbles/ rounded		
Rock outcrop (abundance/runoff): Rocky/ Granite		
Soil (profile/field texture/soil surface): Uniform/clayey sand/ firm		
%Cover leaf litter: 70%		
%Cover bare ground: 5%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Shrub	Growth form: Shrub	Growth form: Sedge
Height: 3-6m	Height: 1-3m	Height: 0.5-1m
Crown cover %: >70	Crown cover %: 30-70	Crown cover %: <10
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Acacia assimilis</i> subsp. <i>assimilis</i>	<i>Thryptomene australis</i>	<i>Gahnia ancistrophylla</i>
ALL SPECIES		
<i>Acacia assimilis</i> subsp. <i>assimilis</i>		
<i>Aristida contorta</i> (A)		
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>		
<i>Gahnia ancistrophylla</i>		
<i>Leptospermum subtenue</i>		
<i>Thryptomene australis</i>		
<i>Waitzia acuminata</i> (A)		

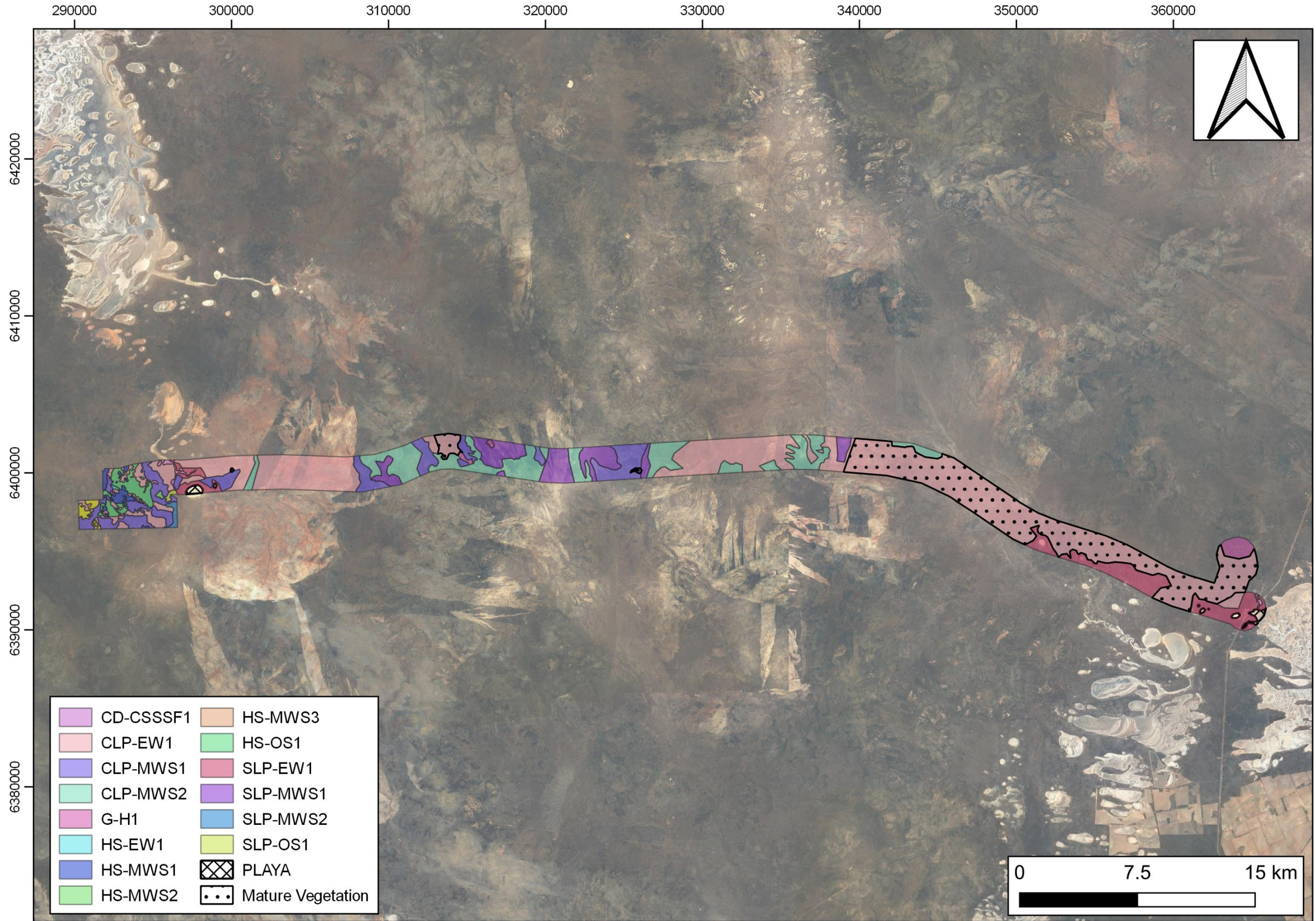
Project Name: MVM Project-Haul Road		
Date: 21/04/2017 & 10/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: CD-CSSSF1		
Quadrat No: 124	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 34/35/36
Zone: 51H	Easting: 296319	Northing: 6399094
Altitude: 308m	Fire (yrs): Nil	Health rating: very good
Landform: closed depression/bottom/playa		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ no runoff		
Soil (profile/field texture/soil surface): Uniform/heavy clay/ firm		
%Cover leaf litter: <5%		
%Cover bare ground: 20%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form:	Growth form: Chenopod Shrub
Height:	Height:	Height: 0.25-0.5m
Crown cover %:	Crown cover %:	Crown cover %: >70
Dominant taxa:	Dominant taxa:	Dominant taxa:
		<i>Tecticornia indica</i> subsp. <i>bidens</i>
ALL SPECIES		
<i>Atriplex vesicaria</i>		
<i>Austrostipa elegantissima</i>		
<i>Disphyma crassifolium</i>		
<i>Dysphania cristata</i> (A)		
<i>Frankenia tetrapetala</i>		
<i>Tecticornia indica</i> subsp. <i>bidens</i>		

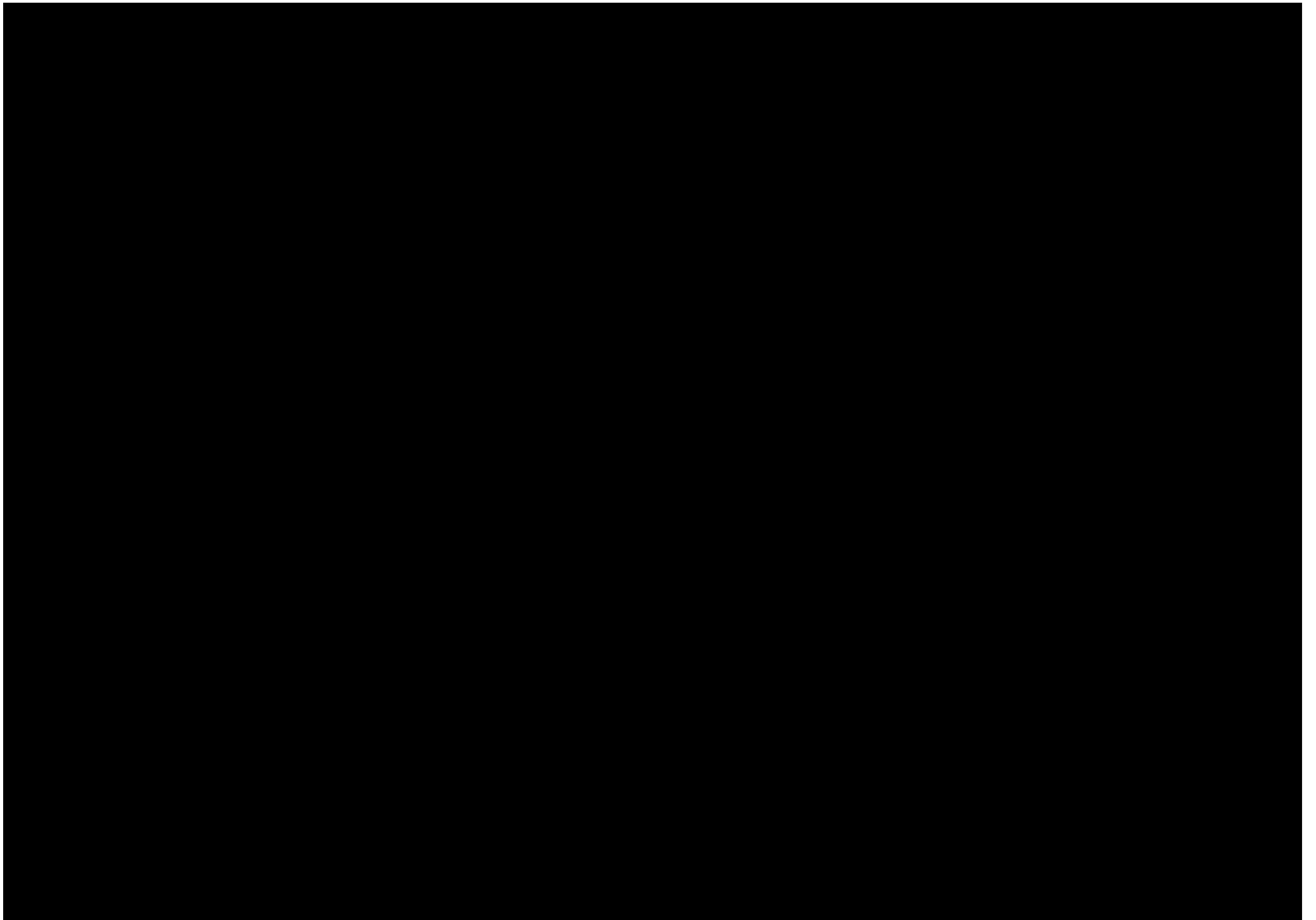
Project Name: MVM Project-Haul Road		
Date: 21/04/2017 & 10/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: G-H1		
Quadrat No: 125	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 46/47/48
Zone: 51H	Easting: 316537	Northing: 6401758
Altitude: 374m	Fire (yrs): Nil	Health rating: very good
Landform: flat/bottom/ rock flat		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Very rocky/very slow		
Soil (profile/field texture/soil surface): Uniform/clayey sand/ hard setting		
%Cover leaf litter: 5%		
%Cover bare ground: 90%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.5-1m
Crown cover %:	Crown cover %:<10	Crown cover %:<10
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Thryptomene australis</i>	<i>Prostanthera althoferi</i>
ALL SPECIES		
<i>Borya constricta</i>		
<i>Dianella revoluta</i> var. <i>divaricata</i>		
<i>Drosera macrantha</i> subsp. <i>macrantha</i>		
<i>Neurachne alopecuroidea</i>		
<i>Prostanthera althoferi</i>		
<i>Thelymitra occidentalis</i>		
<i>Thryptomene australis</i>		

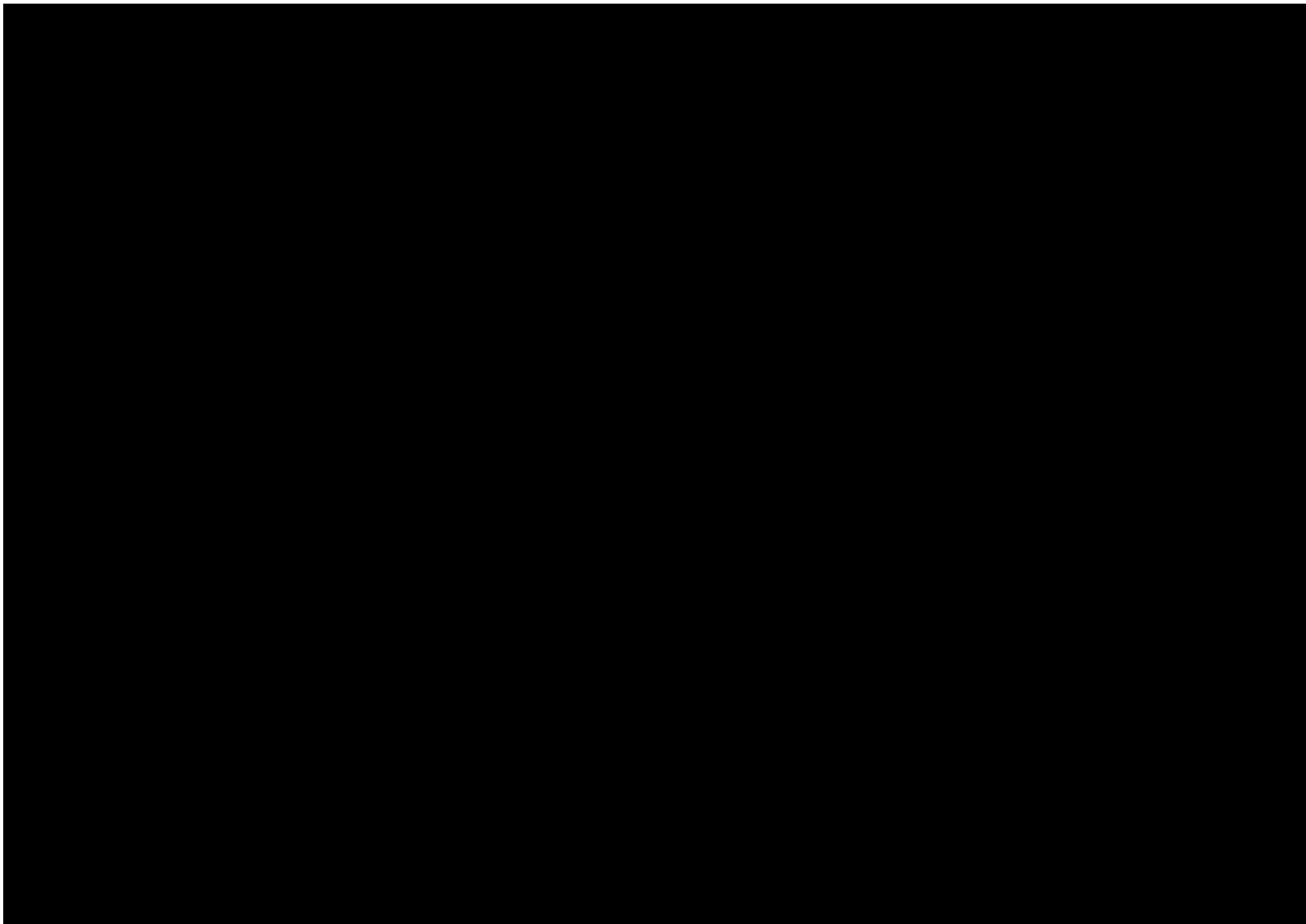
Project Name: MVM Project-Haul Road		
Date: 21/04/2017 & 10/09/2017	Botanist: Jim Williams & Lauren Pick	
Vegetation Group: SLP-EW1		
Quadrat No: 126	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 37/38/39
Zone: 51H	Easting: 364176	Northing: 6390690
Altitude: 237m	Fire (yrs): >40	Health rating: very good
Landform: lower slope/bottom/ dune		
Coarse fragments on the surface: Nil		
Rock outcrop (abundance/runoff): Nil/ Moderately rapid		
Soil (profile/field texture/soil surface): Uniform/sandy loam/ hard setting		
%Cover leaf litter: 95%		
%Cover bare ground: 5%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Sedge
Height: 6-12m	Height: 1-3m	Height: 0.25-0.5m
Crown cover %: 30-70	Crown cover %:<10	Crown cover %: 10-30
Dominant taxa:	Dominant taxa:	Dominant taxa:
<i>Eucalyptus salicola</i>	<i>Eremophila saligna</i>	<i>Gahnia ancistrophylla</i>
ALL SPECIES		
<i>Alyxia buxifolia</i>		
<i>Boronia inornata</i> subsp. <i>inornata</i>		
<i>Eremophila saligna</i>		
<i>Eucalyptus salicola</i>		
<i>Exocarpos sparteus</i>		
<i>Gahnia ancistrophylla</i>		
<i>Lomandra effusa</i>		
<i>Olearia muelleri</i>		
<i>Olearia ramosissima</i>		

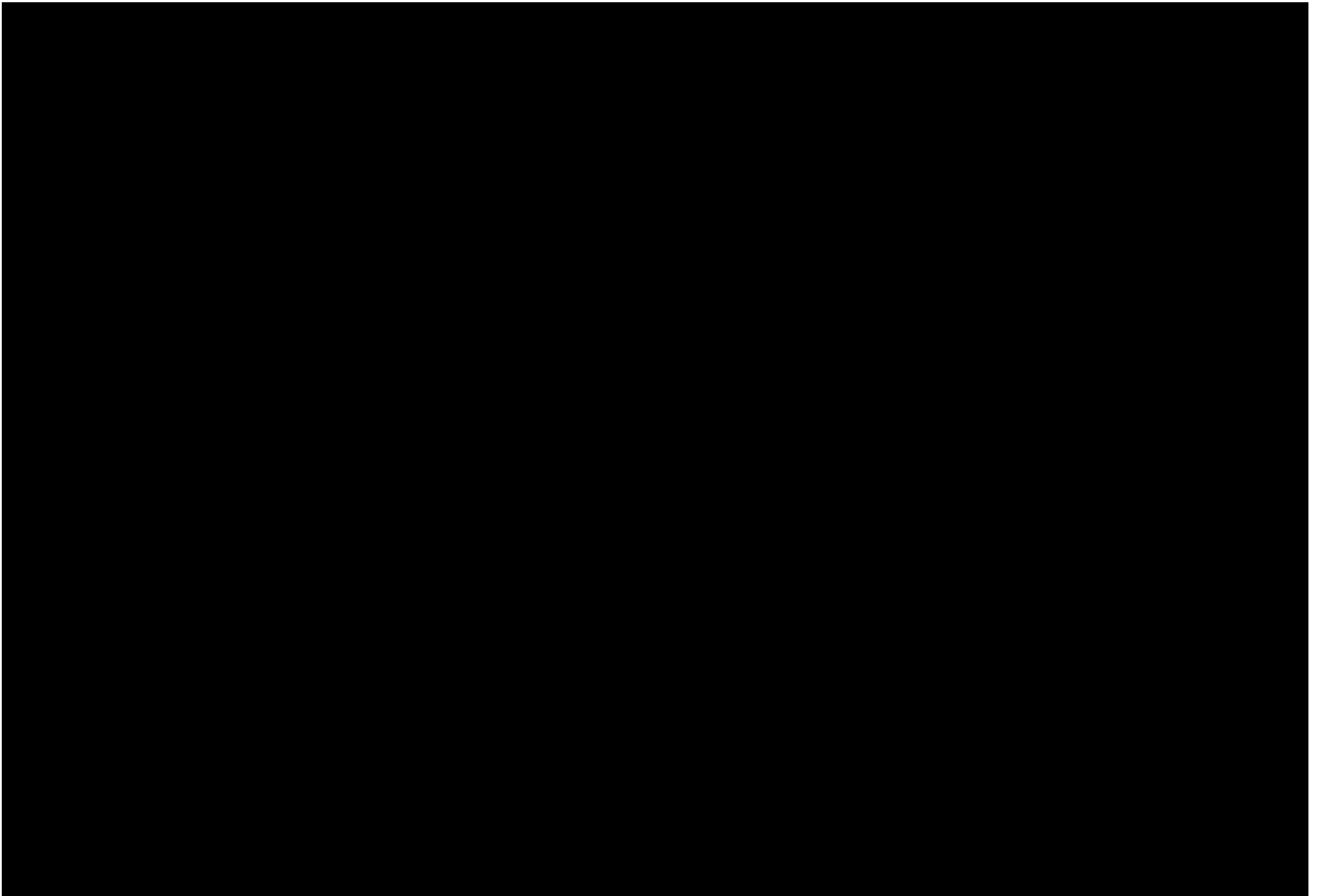
Project Name: MVM Project-Haul Road		
Date: 21/04/2017 & 10/09/2017		Botanist: Jim Williams & Lauren Pick
Vegetation Group: G-H1		
Quadrat No: 127	Quadrat size/shape: 20m x 20m/ Square	Photo number (NW corner): 129/130/131
Zone: 51H	Easting: 364037	Northing: 6394852
Altitude: 269m	Fire (yrs): >40	Health rating: very good
Landform: lower slope/bottom/rock flat		
Coarse fragments on the surface: Extremely; very abundant/fine gravelly; small pebbles/subrounded		
Rock outcrop (abundance/runoff): No bedrock exposed		
Soil (profile/field texture/soil surface): Uniform/sandy clay loam/ surface crust		
%Cover leaf litter: <5%		
%Cover bare ground: 15%		
Tallest stratum	Mid-stratum	Lower stratum
Growth form:	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3m	Height: 0.25-0.5m
Crown cover %:	Crown cover %: <10	Crown cover %: 30-70
Dominant taxa:	Dominant taxa:	Dominant taxa:
	<i>Thryptomene australis</i>	<i>Borya constricta</i>
ALL SPECIES		
<i>Acacia acuminata</i>		
<i>Borya constricta</i>		
<i>Dianella revoluta</i> var. <i>divaricata</i>		
<i>Thelymitra occidentalis</i>		
<i>Thryptomene australis</i>		
<i>Waitzia acuminata</i> (A)		

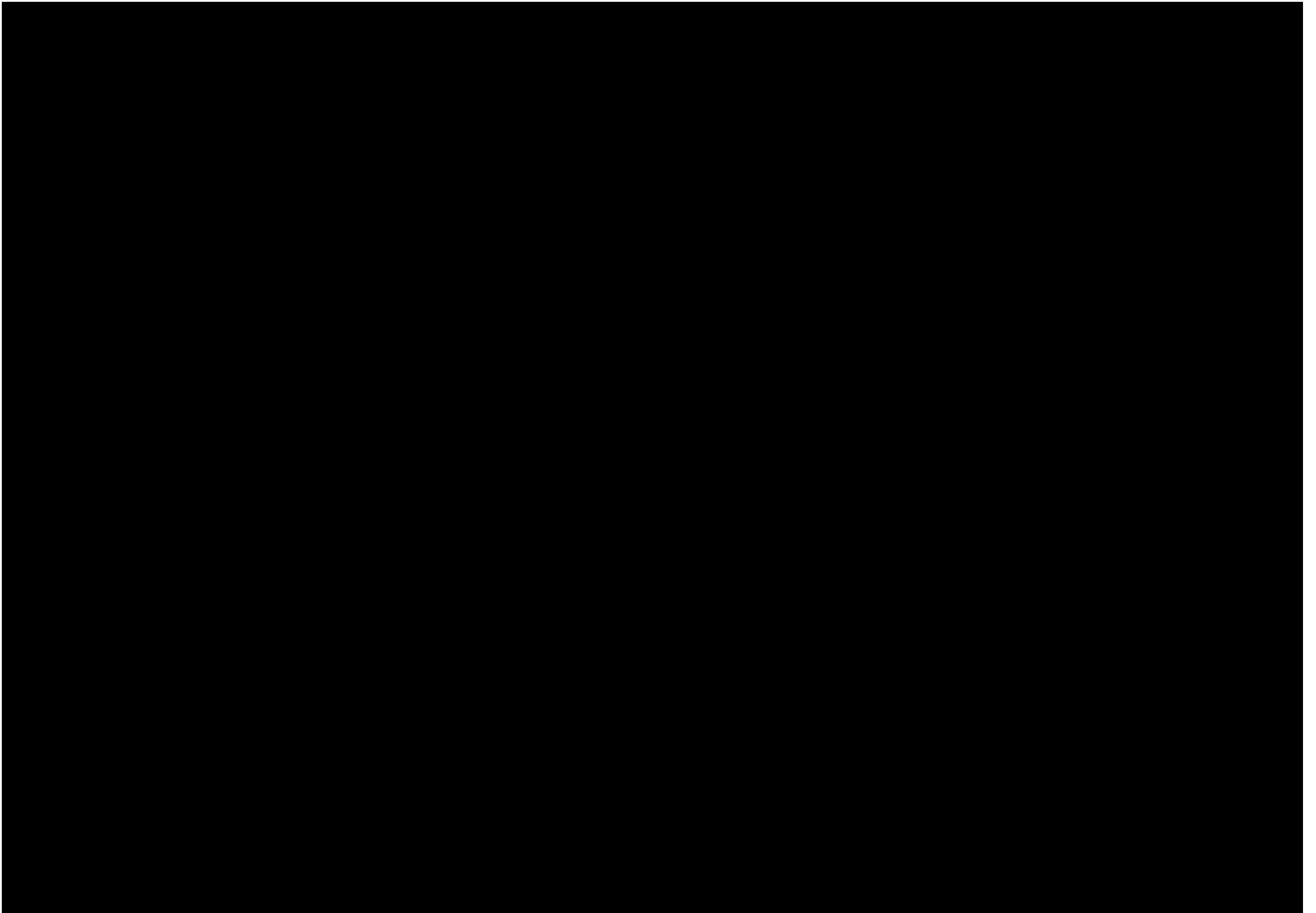
Appendix 5: Vegetation maps of the survey area





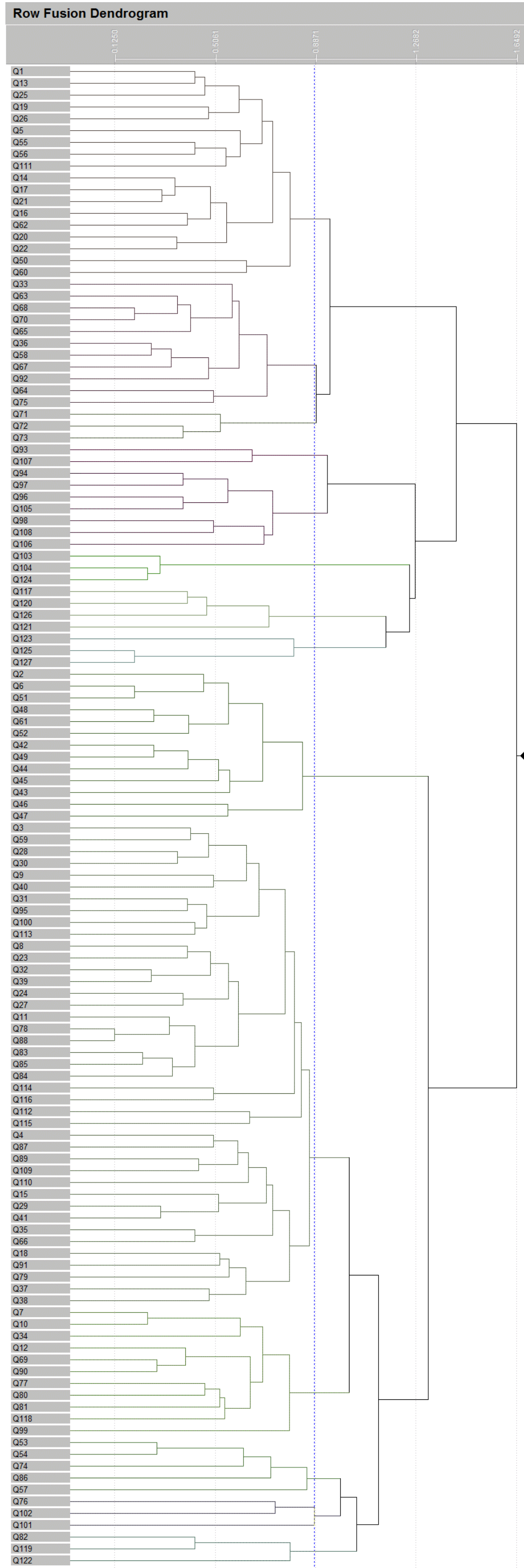






Appendix 6: PATN Analysis Results

Botanica Quadrats

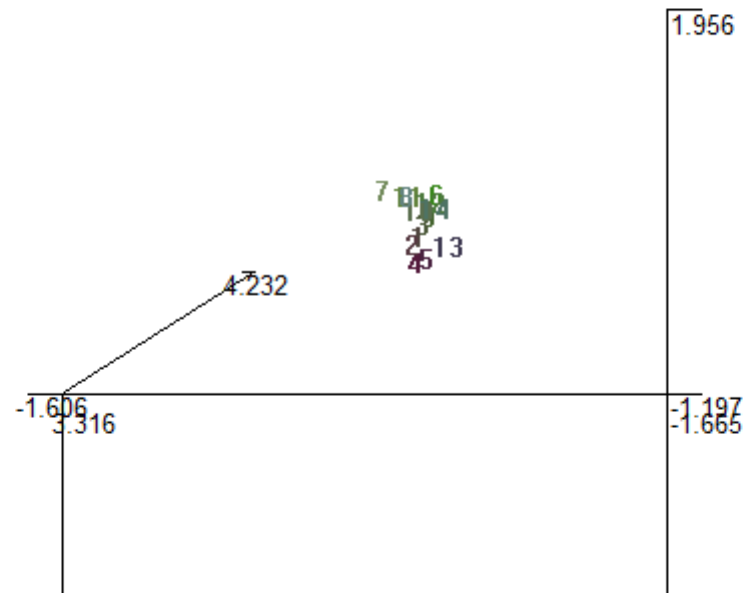


Stress: 0.2856

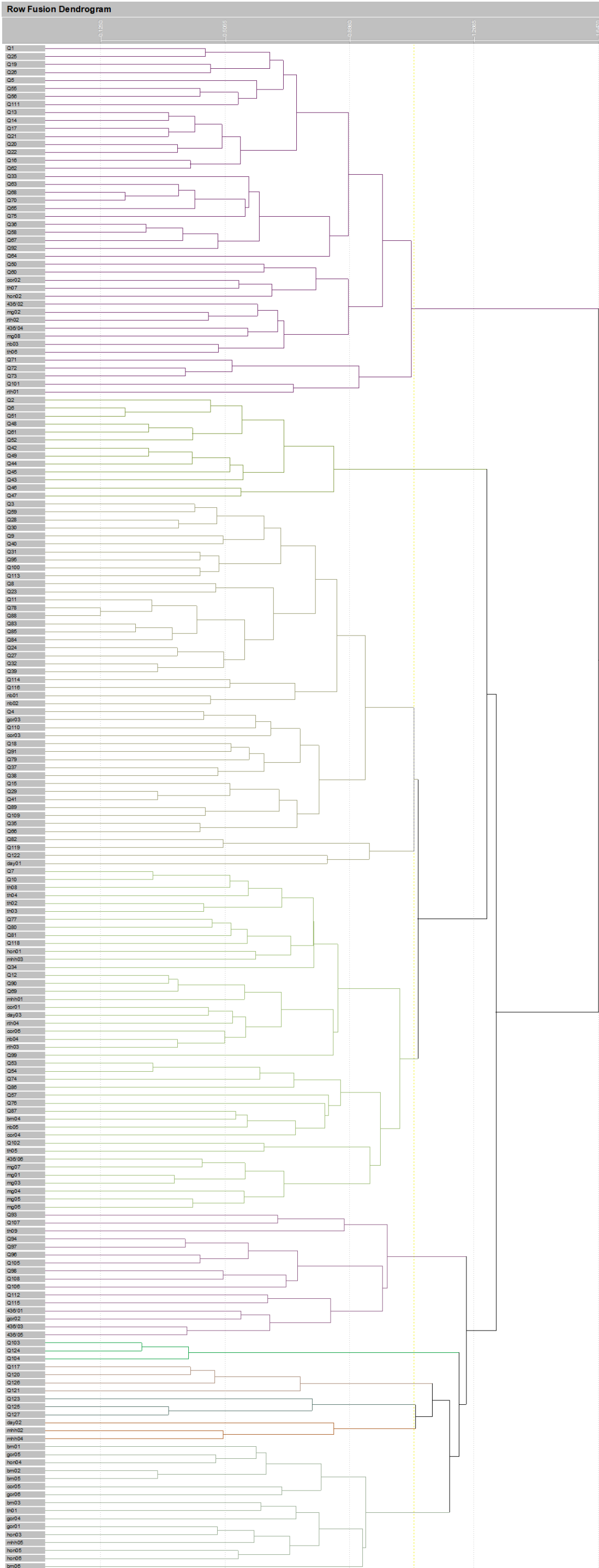
LEGEND

- Group 1
- Group 2
- Group 3
- Group 4
- Group 5
- Group 6
- Group 7
- Group 8
- Group 9
- Group 10
- Group 11
- Group 12
- Group 13
- Group 14

PATN groups



Botanica and Gibson & Lyons Quadrats

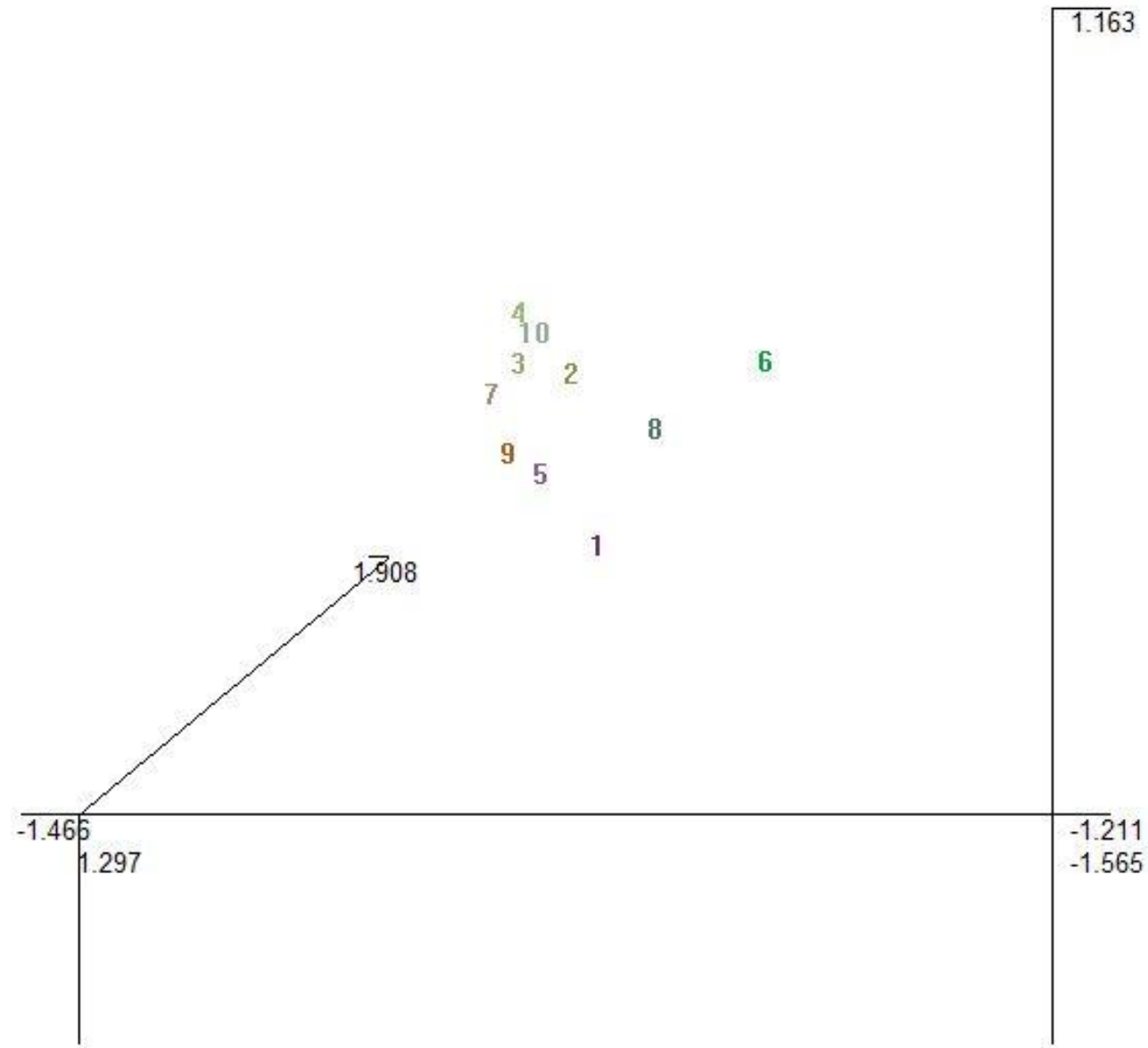


Stress: 0.2833

LEGEND

- Group 1
- Group 2
- Group 3
- Group 4
- Group 5
- Group 6
- Group 7
- Group 8
- Group 9
- Group 10

PATN groups



Appendix 7: List of species identified within each floristic community

(A) Blue text Denotes Annual species; (W) Green text Denotes Introduced species; (T/P) Red text Denotes Threatened/ Priority Flora species

Family	Genus	Taxon	CD-CSSSF1	CLP-EW1	CLP-MWS1	CLP-MWS2	G-H1	HS-EW1	HS-MWS1	HS-MWS2	HS-MWS3	HS-OS1	SLP-EW1	SLP-MWS1	SLP-MWS2	SLP-OS1
Aizoaceae	<i>Disphyma</i>	<i>crassifolium</i>	*			*	*									
Amaranthaceae	<i>Ptilotus</i>	<i>holosericeus</i>		*												
Apiaceae	<i>Platysace</i>	<i>trachymenioides</i>				*										
Apiaceae	<i>Platysace</i>	<i>maxwellii</i>								*						
Apocynaceae	<i>Alyxia</i>	<i>buxifolia</i>		*	*	*			*				*			
Asparagaceae	<i>Lomandra</i>	<i>effusa</i>		*		*							*			
Asphodelaceae	<i>Asphodelus</i>	<i>fistulosus</i> (W)		*												
Asphodelaceae	<i>Bulbine</i>	<i>semibarbata</i> (A)		*					*							
Asteraceae	<i>Asteridea</i>	<i>athrixioides</i> (A)		*	*	*		*	*			*				
Asteraceae	<i>Blennospora</i>	<i>drummondii</i> (A)							*							
Asteraceae	<i>Calotis</i>	<i>hispidula</i> (A)		*					*							
Asteraceae	<i>Centaurea</i>	<i>melitensis</i> (W)										*				
Asteraceae	<i>Cratystylis</i>	<i>conocephala</i>											*			
Asteraceae	<i>Leiocarpa</i>	<i>semicalva</i> subsp. <i>semicalva</i>		*												
Asteraceae	<i>Leucochrysum</i>	<i>fitzgibbonii</i> (A)		*												
Asteraceae	<i>Millotia</i>	<i>major</i> (A)											*			
Asteraceae	<i>Millotia</i>	<i>tenuifolia</i> var. <i>tenuifolia</i> (A)							*							
Asteraceae	<i>Olearia</i>	<i>muelleri</i>		*	*	*		*					*			
Asteraceae	<i>Olearia</i>	<i>ramosissima</i>		*		*							*			
Asteraceae	<i>Olearia</i>	sp. Kennedy Range (G. Byrne 66)										*				
Asteraceae	<i>Olearia</i>	<i>subspicata</i>				*										
Asteraceae	<i>Podolepis</i>	<i>capillaris</i> (A)	*	*	*	*										
Asteraceae	<i>Podotheca</i>	<i>gnaphalioides</i> (A)							*							
Asteraceae	<i>Rhodanthe</i>	<i>pygmaea</i> (A)		*												
Asteraceae	<i>Senecio</i>	<i>pinnatifolius</i>										*				
Asteraceae	<i>Senecio</i>	<i>quadridentatus</i>		*												
Asteraceae	<i>Sonchus</i>	<i>oleraceus</i> (W)		*	*			*				*				
Asteraceae	<i>Waitzia</i>	<i>acuminata</i> (A)		*			*		*							
Asteraceae	<i>Waitzia</i>	<i>fitzgibbonii</i> (A)		*												
Boraginaceae	<i>Halgania</i>	<i>andromedifolia</i>		*	*	*							*			
Boraginaceae	<i>Halgania</i>	<i>cyanea</i>										*				
Boraginaceae	<i>Halgania</i>	<i>integerrima</i>		*		*			*	*	*			*	*	*
Boraginaceae	<i>Halgania</i>	<i>lavandulacea</i>											*			
Boryaceae	<i>Borya</i>	<i>constricta</i>					*							*		
Brassicaceae	<i>Carrichtera</i>	<i>annua</i> (W)		*								*				

Family	Genus	Taxon	CD-CSSSF1	CLP-EW1	CLP-MWS1	CLP-MWS2	G-H1	HS-EW1	HS-MWS1	HS-MWS2	HS-MWS3	HS-OS1	SLP-EW1	SLP-MWS1	SLP-MWS2	SLP-OS1
Campanulaceae	<i>Lobelia</i>	<i>anceps</i>		*												
Casuarinaceae	<i>Allocasuarina</i>	<i>acutivalvis</i> subsp. <i>acutivalvis</i>							*					*		
Casuarinaceae	<i>Allocasuarina</i>	<i>campestris</i>			*		*		*		*		*			
Casuarinaceae	<i>Allocasuarina</i>	<i>corniculata</i>				*								*		
Casuarinaceae	<i>Allocasuarina</i>	sp. (sterile)						*	*			*				*
Casuarinaceae	<i>Allocasuarina</i>	<i>spinosissima</i>				*										
Celastraceae	<i>Psammomoya</i>	<i>choretroides</i>											*	*		
Chenopodiaceae	<i>Atriplex</i>	<i>acutibractea</i> subsp. <i>karoniensis</i>			*											
Chenopodiaceae	<i>Atriplex</i>	<i>vesicaria</i>	*	*												
Chenopodiaceae	<i>Chenopodium</i>	<i>curvispicatum</i>	*	*												
Chenopodiaceae	<i>Dysphania</i>	<i>cristata</i> (A)	*													
Chenopodiaceae	<i>Enchylaena</i>	<i>tomentosa</i>	*	*					*							
Chenopodiaceae	<i>Eriochiton</i>	<i>sclerolaenoides</i>		*	*			*	*							
Chenopodiaceae	<i>Maireana</i>	<i>amoena</i>	*													
Chenopodiaceae	<i>Maireana</i>	<i>eriodlada</i>			*											
Chenopodiaceae	<i>Maireana</i>	<i>radiata</i>		*												
Chenopodiaceae	<i>Maireana</i>	<i>trichoptera</i>		*	*											
Chenopodiaceae	<i>Rhagodia</i>	<i>drummondii</i>		*												
Chenopodiaceae	<i>Rhagodia</i>	<i>preissii</i> subsp. <i>preissii</i>		*	*			*	*			*				
Chenopodiaceae	<i>Sclerolaena</i>	<i>euroides</i>	*	*												
Chenopodiaceae	<i>Sclerolaena</i>	<i>diacantha</i>	*	*												
Chenopodiaceae	<i>Sclerolaena</i>	<i>drummondii</i>		*				*								
Chenopodiaceae	<i>Sclerolaena</i>	<i>parviflora</i>	*	*	*	*									*	
Chenopodiaceae	<i>Sclerolaena</i>	<i>uniflora</i>		*	*			*	*							
Chenopodiaceae	<i>Tecticornia</i>	<i>doliiformis</i>	*													
Chenopodiaceae	<i>Tecticornia</i>	<i>indica</i> subsp. <i>bidens</i>	*													
Chenopodiaceae	<i>Tecticornia</i>	<i>lylei</i>	*													
Chenopodiaceae	<i>Tecticornia</i>	<i>pergranulata</i>	*													
Chenopodiaceae	<i>Tecticornia</i>	sp. (sterile)		*												
Chenopodiaceae	<i>Tecticornia</i>	<i>verrucosa</i>	*													
Chenopodiaceae	<i>Threlkeldia</i>	<i>diffusa</i>	*													
Colchicaceae	<i>Wurmbea</i>	<i>tenella</i>							*							
Convolvulaceae	<i>Wilsonia</i>	<i>humilis</i>		*	*	*						*				
Crassulaceae	<i>Crassula</i>	<i>colorata</i> var. <i>acuminata</i> (A)		*												
Cupressaceae	<i>Callitris</i>	<i>columellaris</i>											*	*		
Cupressaceae	<i>Callitris</i>	<i>preissii</i>							*					*		
Cyperaceae	<i>Gahnia</i>	<i>aristata</i>		*					*							

Family	Genus	Taxon	CD-CSSSF1	CLP-EW1	CLP-MWS1	CLP-MWS2	G-H1	HS-EW1	HS-MWS1	HS-MWS2	HS-MWS3	HS-OS1	SLP-EW1	SLP-MWS1	SLP-MWS2	SLP-OS1
Fabaceae	<i>Acacia</i>	<i>enervia</i> subsp. <i>enervia</i>			*				*						*	
Fabaceae	<i>Acacia</i>	<i>eremophila</i>				*										
Fabaceae	<i>Acacia</i>	<i>erinacea</i>		*	*	*		*	*		*	*				
Fabaceae	<i>Acacia</i>	<i>evenulosa</i>			*									*		
Fabaceae	<i>Acacia</i>	<i>hadrophylla</i>				*							*	*		
Fabaceae	<i>Acacia</i>	<i>heteroneura</i> var. <i>jutsonii</i>												*		
Fabaceae	<i>Acacia</i>	<i>hystrix</i> subsp. <i>hystrix</i>		*	*	*						*				
Fabaceae	<i>Acacia</i>	<i>inamabilis</i>		*												
Fabaceae	<i>Acacia</i>	<i>intricata</i>		*		*										
Fabaceae	<i>Acacia</i>	<i>jennerae</i>				*							*			
Fabaceae	<i>Acacia</i>	<i>lasiocalyx</i>					*									
Fabaceae	<i>Acacia</i>	<i>ligulata</i>		*				*				*				
Fabaceae	<i>Acacia</i>	<i>merrallii</i>		*		*							*			
Fabaceae	<i>Acacia</i>	<i>multispicata</i>			*									*		
Fabaceae	<i>Acacia</i>	<i>mutabilis</i> subsp. <i>stipulifera</i> (P3)		*	*	*								*	*	
Fabaceae	<i>Acacia</i>	<i>neurophylla</i> subsp. <i>neurophylla</i>				*										
Fabaceae	<i>Acacia</i>	<i>nigripilosa</i> subsp. <i>nigripilosa</i>		*	*											
Fabaceae	<i>Acacia</i>	<i>nyssophylla</i>		*	*	*			*							
Fabaceae	<i>Acacia</i>	<i>oswaldii</i>							*							
Fabaceae	<i>Acacia</i>	<i>pachypoda</i>		*										*		
Fabaceae	<i>Acacia</i>	<i>pinguiculosa</i> subsp. <i>teretifolia</i>												*		
Fabaceae	<i>Acacia</i>	<i>poliochroa</i>		*	*							*				
Fabaceae	<i>Acacia</i>	sp. (Sterile)			*											*
Fabaceae	<i>Acacia</i>	<i>sphacelata</i> subsp. <i>sphacelata</i>			*						*					
Fabaceae	<i>Acacia</i>	<i>sulcata</i> var. <i>platyphylla</i>		*												
Fabaceae	<i>Acacia</i>	<i>tetragonophylla</i>				*										
Fabaceae	<i>Acacia</i>	<i>tetraptera</i>		*		*								*		
Fabaceae	<i>Acacia</i>	<i>uncinella</i>												*		
Fabaceae	<i>Acacia</i>	<i>verriculum</i>												*		
Fabaceae	<i>Acacia</i>	<i>yorkkrakinensis</i>								*						*
Fabaceae	<i>Acacia</i>	<i>tetraptera</i>		*												
Fabaceae	<i>Bossiaea</i>	<i>barbarae</i>		*												
Fabaceae	<i>Bossiaea</i>	<i>cucullata</i>		*										*		
Fabaceae	<i>Bossiaea</i>	<i>flexuosa</i> (P3)												*		
Fabaceae	<i>Bossiaea</i>	<i>leptacantha</i>		*										*		
Fabaceae	<i>Daviesia</i>	<i>aphylla</i>		*		*								*		
Fabaceae	<i>Daviesia</i>	<i>argillacea</i>		*	*	*		*				*			*	

Family	Genus	Taxon	CD-CSSSF1	CLP-EW1	CLP-MWS1	CLP-MWS2	G-H1	HS-EW1	HS-MWS1	HS-MWS2	HS-MWS3	HS-OS1	SLP-EW1	SLP-MWS1	SLP-MWS2	SLP-OS1
Fabaceae	<i>Daviesia</i>	<i>articulata</i>		*												
Fabaceae	<i>Daviesia</i>	<i>benthamii</i>		*	*	*						*				
Fabaceae	<i>Daviesia</i>	<i>nematophylla</i>		*	*							*				
Fabaceae	<i>Daviesia</i>	<i>rubiginosa</i>		*												
Fabaceae	<i>Dillwynia</i>	<i>acerosa</i>			*	*										
Fabaceae	<i>Eutaxia</i>	<i>neurocalyx</i> subsp. <i>papillosa</i>		*												
Fabaceae	<i>Gastrolobium</i>	<i>crassifolium</i>			*				*							
Fabaceae	<i>Gastrolobium</i>	<i>parviflorum</i>									*					
Fabaceae	<i>Gompholobium</i>	<i>gompholobioides</i>		*	*			*								
Fabaceae	<i>Goodia</i>	<i>medicaginea</i>							*							
Fabaceae	<i>Jacksonia</i>	<i>nematoclada</i>			*				*				*			
Fabaceae	<i>Labichea</i>	<i>stellata</i>							*			*				
Fabaceae	<i>Leptosema</i>	<i>daviesioides</i>							*		*		*			*
Fabaceae	<i>Mirbelia</i>	<i>granitica</i>					*									
Fabaceae	<i>Mirbelia</i>	<i>microphylla</i>			*											
Fabaceae	<i>Mirbelia</i>	<i>ramulosa</i>			*											
Fabaceae	<i>Pultenaea</i>	<i>arida</i>		*	*										*	
Fabaceae	<i>Radyera</i>	<i>farragei</i>		*												
Fabaceae	<i>Senna</i>	<i>artemisioides</i> subsp. <i>filifolia</i>		*		*				*		*			*	
Fabaceae	<i>Templetonia</i>	<i>sulcata</i>		*	*	*										
Frankeniaceae	<i>Frankenia</i>	<i>tetrapetala</i>	*													
Frankeniaceae	<i>Frankenia</i>	<i>interioris</i>	*													
Goodeniaceae	<i>Anthotium</i>	<i>rubriflorum</i>												*		
Goodeniaceae	<i>Cooperhooia</i>	<i>strophiolata</i>		*		*					*					
Goodeniaceae	<i>Dampiera</i>	<i>angulata</i>		*	*				*		*					*
Goodeniaceae	<i>Dampiera</i>	<i>angulata</i> subsp. Peak Charles (K.R. Newbey 5402)			*	*			*			*				*
Goodeniaceae	<i>Goodenia</i>	<i>affinis</i>		*												
Goodeniaceae	<i>Goodenia</i>	<i>concinna</i>			*											
Goodeniaceae	<i>Goodenia</i>	<i>dyeri</i> (A)		*	*				*			*				
Goodeniaceae	<i>Goodenia</i>	<i>krauseana</i> (A)									*					
Goodeniaceae	<i>Goodenia</i>	<i>pinifolia</i>		*	*	*			*		*		*			
Goodeniaceae	<i>Goodenia</i>	<i>scapigera</i> subsp. <i>scapigera</i>							*							
Goodeniaceae	<i>Scaevola</i>	<i>restiacea</i> subsp. <i>restiacea</i>		*		*										
Goodeniaceae	<i>Scaevola</i>	<i>spinescens</i>		*	*	*		*	*				*		*	
Goodeniaceae	<i>Scaevola</i>	<i>bursariifolia</i>		*												
Gyrostemonaceae	<i>Codonocarpus</i>	<i>cotinifolius</i>								*		*				*
Gyrostemonaceae	<i>Gyrostemon</i>	<i>racemiger</i>											*			

Family	Genus	Taxon	CD-CSSSF1	CLP-EW1	CLP-MWS1	CLP-MWS2	G-H1	HS-EW1	HS-MWS1	HS-MWS2	HS-MWS3	HS-OS1	SLP-EW1	SLP-MWS1	SLP-MWS2	SLP-OS1
Myrtaceae	<i>Euryomyrtus</i>	<i>maidenii</i>		*			*							*		
Myrtaceae	<i>Leptospermum</i>	<i>erubescens</i>		*					*				*	*		
Myrtaceae	<i>Leptospermum</i>	<i>fastigiatum</i>							*					*		
Myrtaceae	<i>Leptospermum</i>	<i>spinescens</i>												*		
Myrtaceae	<i>Leptospermum</i>	<i>subtenuae</i>					*						*			
Myrtaceae	<i>Melaleuca</i>	<i>johnsonii</i>				*										
Myrtaceae	<i>Melaleuca</i>	<i>?villosisepala</i>												*		
Myrtaceae	<i>Melaleuca</i>	<i>acuminata</i>		*	*										*	
Myrtaceae	<i>Melaleuca</i>	<i>calyptroides</i>		*		*								*		
Myrtaceae	<i>Melaleuca</i>	<i>cardiophylla</i>		*	*	*										
Myrtaceae	<i>Melaleuca</i>	<i>cliffortioides</i>			*											
Myrtaceae	<i>Melaleuca</i>	<i>cordata</i>		*							*		*	*		
Myrtaceae	<i>Melaleuca</i>	<i>cucullata</i>				*										
Myrtaceae	<i>Melaleuca</i>	<i>eleuterostachya</i>			*	*	*						*			
Myrtaceae	<i>Melaleuca</i>	<i>elliptica</i>														*
Myrtaceae	<i>Melaleuca</i>	<i>glaberrima</i>												*		
Myrtaceae	<i>Melaleuca</i>	<i>halmaturorum</i>	*													
Myrtaceae	<i>Melaleuca</i>	<i>hamata</i>	*	*	*	*			*		*	*		*	*	*
Myrtaceae	<i>Melaleuca</i>	<i>johnsonii</i>			*	*										
Myrtaceae	<i>Melaleuca</i>	<i>lateriflora</i>		*	*	*								*	*	
Myrtaceae	<i>Melaleuca</i>	<i>laxiflora</i>											*			
Myrtaceae	<i>Melaleuca</i>	<i>pauperiflora</i> subsp. <i>pauperiflora</i>		*	*	*			*				*			
Myrtaceae	<i>Melaleuca</i>	<i>pentagona</i>											*			
Myrtaceae	<i>Melaleuca</i>	<i>pungens</i>									*					
Myrtaceae	<i>Melaleuca</i>	<i>quadrifaria</i>			*									*		
Myrtaceae	<i>Melaleuca</i>	sp. (sterile)		*		*						*				
Myrtaceae	<i>Melaleuca</i>	<i>sparsiflora</i>		*	*	*								*		
Myrtaceae	<i>Melaleuca</i>	<i>spicigera</i>											*			
Myrtaceae	<i>Melaleuca</i>	<i>teuthidoides</i>				*										
Myrtaceae	<i>Melaleuca</i>	<i>thyoides</i>		*												
Myrtaceae	<i>Melaleuca</i>	<i>zeteticorum</i>				*										
Myrtaceae	<i>Phymatocarpus</i>	<i>interioris</i>											*			
Myrtaceae	<i>Rinzia</i>	<i>sessilis</i>				*										
Myrtaceae	<i>Thryptomene</i>	<i>australis</i>					*									
Myrtaceae	<i>Thryptomene</i>	<i>kochii</i>					*		*					*		
Myrtaceae	<i>Verticordia</i>	<i>chrysantha</i>											*			
Myrtaceae	<i>Verticordia</i>	<i>picta</i>											*	*		

Family	Genus	Taxon	CD-CSSSF1	CLP-EW1	CLP-MWS1	CLP-MWS2	G-H1	HS-EW1	HS-MWS1	HS-MWS2	HS-MWS3	HS-OS1	SLP-EW1	SLP-MWS1	SLP-MWS2	SLP-OS1
Myrtaceae	<i>Verticordia</i>	<i>sieberi</i> var. <i>sieberi</i>												*		
Orchidaceae	<i>Caladenia</i>	sp. (Sterile)							*							
Orchidaceae	<i>Ericksonella</i>	<i>saccharata</i>							*							
Orchidaceae	<i>Pterostylis</i>	<i>mutica</i>			*											
Orchidaceae	<i>Thelymitra</i>	<i>occidentalis</i>					*									
Pittosporaceae	<i>Marianthus</i>	<i>aquilonaris</i> (T)							*							
Pittosporaceae	<i>Marianthus</i>	<i>bicolor</i>											*			
Pittosporaceae	<i>Pittosporum</i>	<i>angustifolium</i>		*												
Plantaginaceae	<i>Plantago</i>	<i>debilis</i> (A)		*												
Poaceae	<i>Aristida</i>	<i>contorta</i> (A)					*									
Poaceae	<i>Austrostipa</i>	<i>acrociliata</i>		*	*			*	*			*				
Poaceae	<i>Austrostipa</i>	<i>elegantissima</i>	*	*		*										
Poaceae	<i>Austrostipa</i>	<i>exilis</i>		*	*				*			*				
Poaceae	<i>Austrostipa</i>	<i>hemipogon</i>		*		*							*			
Poaceae	<i>Austrostipa</i>	<i>nitida</i>		*												
Poaceae	<i>Austrostipa</i>	<i>variabilis</i>		*	*							*				
Poaceae	<i>Bromus</i>	<i>arenarius</i> (A)							*							
Poaceae	<i>Bromus</i>	<i>rubens</i> (W)										*				
Poaceae	<i>Eragrostis</i>	<i>falcata</i>	*													
Poaceae	<i>Neurachne</i>	<i>alopeкуроidea</i>					*									
Poaceae	<i>Pentameris</i>	<i>airoides</i> (W)		*												
Poaceae	<i>Rostraria</i>	<i>pumila</i> (W)		*												
Poaceae	<i>Rytidosperma</i>	<i>caespitosum</i>		*												
Poaceae	<i>Triodia</i>	<i>irritans</i>		*		*										
Poaceae	<i>Triodia</i>	<i>scariosa</i>								*					*	
Poaceae	<i>Vulpia</i>	<i>?muralis</i> (W)			*											
Polygalaceae	<i>Comesperma</i>	<i>volubile</i>			*	*			*							
Polygalaceae	<i>Muehlenbeckia</i>	<i>adpressa</i>		*												
Portulacaceae	<i>Calandrinia</i>	<i>eremaea</i> (A)							*							
Portulacaceae	<i>Calandrinia</i>	<i>quadri-valvis</i> (A)									*					
Primulaceae	<i>Lysimachia</i>	<i>arvensis</i> (W)		*												
Proteaceae	<i>Banksia</i>	<i>elderiana</i>											*	*		
Proteaceae	<i>Banksia</i>	<i>laevigata</i> subsp. <i>fuscolutea</i>												*		
Proteaceae	<i>Banksia</i>	<i>media</i>											*			
Proteaceae	<i>Grevillea</i>	<i>cagiana</i>											*	*		
Proteaceae	<i>Grevillea</i>	<i>decipiens</i>												*		
Proteaceae	<i>Grevillea</i>	<i>excelsior</i>												*		

Family	Genus	Taxon	CD-CSSSF1	CLP-EW1	CLP-MWS1	CLP-MWS2	G-H1	HS-EW1	HS-MWS1	HS-MWS2	HS-MWS3	HS-OS1	SLP-EW1	SLP-MWS1	SLP-MWS2	SLP-OS1
Rutaceae	<i>Phebalium</i>	<i>tuberculosum</i>							*							
Rutaceae	<i>Philotheca</i>	<i>gardneri</i>		*	*				*							
Rutaceae	<i>Philotheca</i>	<i>tomentella</i>				*								*		
Santalaceae	<i>Exocarpos</i>	<i>aphyllus</i>		*	*	*			*							
Santalaceae	<i>Exocarpos</i>	<i>sparteus</i>		*	*				*		*		*	*		
Santalaceae	<i>Leptomeria</i>	<i>preissiana</i>											*	*		
Santalaceae	<i>Santalum</i>	<i>acuminatum</i>		*	*	*		*	*		*	*	*	*	*	*
Sapindaceae	<i>Dodonaea</i>	<i>amblyophylla</i>		*												
Sapindaceae	<i>Dodonaea</i>	<i>bursariifolia</i>		*	*	*			*		*	*		*		
Sapindaceae	<i>Dodonaea</i>	<i>inaequifolia</i>		*	*				*			*				
Sapindaceae	<i>Dodonaea</i>	<i>stenozyga</i>		*	*	*		*	*			*	*			
Sapindaceae	<i>Dodonaea</i>	<i>viscosa</i> subsp. <i>spatulata</i>	*	*												
Scrophulariaceae	<i>Eremophila</i>	<i>caerulea</i> subsp. <i>caerulea</i>		*	*	*		*	*			*	*		*	
Scrophulariaceae	<i>Eremophila</i>	<i>calorhabdos</i>												*		
Scrophulariaceae	<i>Eremophila</i>	<i>decipiens</i>				*										
Scrophulariaceae	<i>Eremophila</i>	<i>dempsteri</i>		*												
Scrophulariaceae	<i>Eremophila</i>	<i>densifolia</i> subsp. <i>pubiflora</i>		*	*											
Scrophulariaceae	<i>Eremophila</i>	<i>deserti</i>	*													
Scrophulariaceae	<i>Eremophila</i>	<i>dichroantha</i>		*												
Scrophulariaceae	<i>Eremophila</i>	<i>gibbosa</i>	*													
Scrophulariaceae	<i>Eremophila</i>	<i>interstans</i>			*											
Scrophulariaceae	<i>Eremophila</i>	<i>ionantha</i>		*		*									*	
Scrophulariaceae	<i>Eremophila</i>	<i>labrosa</i>		*												
Scrophulariaceae	<i>Eremophila</i>	<i>psilocalyx</i>		*	*	*		*	*			*				
Scrophulariaceae	<i>Eremophila</i>	<i>rugosa</i>	*	*	*											
Scrophulariaceae	<i>Eremophila</i>	<i>saligna</i>		*	*	*			*							
Scrophulariaceae	<i>Eremophila</i>	<i>scoparia</i>		*												
Scrophulariaceae	<i>Eremophila</i>	<i>subfloccosa</i> subsp. <i>glandulosa</i>		*	*							*		*		
Solanaceae	<i>Anthocercis</i>	<i>anisantha</i> subsp. <i>anisantha</i>		*	*			*	*			*				
Solanaceae	<i>Duboisia</i>	<i>hopwoodii</i>								*						
Solanaceae	<i>Lycium</i>	<i>australe</i>		*												
Solanaceae	<i>Solanum</i>	<i>hoplopetalum</i>		*												
Solanaceae	<i>Solanum</i>	<i>nummularium</i>		*												
Solanaceae	<i>Solanum</i>	<i>plicatile</i>										*				
Thymelaeaceae	<i>Pimelea</i>	<i>angustifolia</i>		*		*								*		
Thymelaeaceae	<i>Pimelea</i>	<i>microcephala</i>		*					*			*				
Thymelaeaceae	<i>Pimelea</i>	<i>suaveolens</i> subsp. <i>flava</i>		*		*								*		

Family	Genus	Taxon	CD-CSSSF1	CLP-EW1	CLP-MWS1	CLP-MWS2	G-H1	HS-EW1	HS-MWS1	HS-MWS2	HS-MWS3	HS-OS1	SLP-EW1	SLP-MWS1	SLP-MWS2	SLP-OS1
Thymelaeaceae	<i>Pimelea</i>	<i>aeruginosa</i>				*										
Thymelaeaceae	<i>Pimelea</i>	<i>microcephala</i>		*					*			*				
Urticaceae	<i>Parietaria</i>	<i>cardiostegia</i> (A)		*												
Violaceae	<i>Hybanthus</i>	<i>floribundus</i> subsp. <i>curvifolius</i>		*					*				*	*		
Zygophyllaceae	<i>Zygophyllum</i>	<i>apiculatum</i>		*												
Zygophyllaceae	<i>Zygophyllum</i>	<i>fruticosum</i>		*	*							*				

Appendix 8: Vegetation Condition Rating

Vegetation Condition Rating	South West and Interzone Botanical Provinces	Eremaean and Northern Botanical Provinces
Pristine	Pristine or nearly so, no obvious signs of disturbance or damage caused by human activities since European settlement.	/
Excellent	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.	Pristine or nearly so, no obvious signs of damage caused by human activities since European settlement.
Very Good	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.	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.
Good	Vegetation structure significantly altered by very obvious signs of multiple disturbances. Retains basic vegetation structure or ability to regenerate it. Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.	More obvious signs of damage caused by human activity since European settlement, including some obvious impact on the vegetation structure such as that caused by low levels of grazing or slightly aggressive weeds.
Poor	/	Still retains basic vegetation structure or ability to regenerate it after very obvious impacts of human activities since European settlement, such as grazing, partial clearing, frequent fires or aggressive weeds.
Degraded	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.	Severely impacted by grazing, very frequent fires, clearing or a combination of these activities. Scope for some regeneration but not to a state approaching good condition without intensive management. Usually with a number of weed species present including very aggressive species.
Completely Degraded	The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees and shrubs.	Areas that are completely or almost completely without native species in the structure of their vegetation; i.e. areas that are cleared or 'parkland cleared' with their flora comprising weed or crop species with isolated native trees or shrubs.

Appendix 9: GPS coordinates of Priority Flora locations (GDA94)

Taxon	Zone	Easting	Northing
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	295411	6397060
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	295433	6397555
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296307	6396725
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296363	6396733
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296386	6396723
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296394	6397291
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296428	6397334
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296433	6397082
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296439	6397020
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296440	6396991
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296632	6396634
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296704	6396639
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296739	6396880
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296770	6396637
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	297048	6396643
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	297091	6396636
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	297211	6396643
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	297425	6396639
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	297450	6396883
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	298054	6396873
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	298060	6396836
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	306326	6400407
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	306502	6400342
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	307693	6400484
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	312480	6401508
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	312573	6401535
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	313214	6401540
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	313817	6401400
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	314200	6401441
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	314200	6401441
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	331116	6400733
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	331633	6400290
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	331886	6400229
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	333452	6400766
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	333988	6401082
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	294648	6397759
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	294897	6397313
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	295970	6397770
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296060	6397855
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296773	6398238
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	305811	6409524
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	306133	6409402
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	306666	6409234
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	307278	6409930
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	308456	6408819
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	308533	6408753
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	308829	6408448

Taxon	Zone	Easting	Northing
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	305779	6409536
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	307374	6409887
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	308182	6409103
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	308771	6408504
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	309125	6408147
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	309480	6407784
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	310027	6407242
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	310533	6406736
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	312045	6405197
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	312410	6404828
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	312931	6404300
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	313516	6403703
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	314636	6402579
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	307955	6400171
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	307781	6400297
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	300733	6400801
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	300121	6400797
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	296915	6398584
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	331246	6399504
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	331636	6399897
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	331642	6399977
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	334495	6401106
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	334673	6401204
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	335141	6401241
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	339038	6401272
<i>Acacia mutabilis</i> subsp. <i>stipulifera</i> (P3)	51 H	339405	6401261
<i>Acacia hystrix</i> subsp. <i>continua</i> (P1)	51 H	364311	6394178
<i>Acacia hystrix</i> subsp. <i>continua</i> (P1)	51 H	364335	6394103
<i>Acacia hystrix</i> subsp. <i>continua</i> (P1)	51 H	364339	6394087
<i>Acacia hystrix</i> subsp. <i>continua</i> (P1)	51 H	364354	6394034
<i>Bossiaea flexuosa</i> (P3)	51 H	293485	6398566
<i>Brachyloma stenolobum</i> (P1)	51 H	318841	6401265
<i>Brachyloma stenolobum</i> (P1)	51 H	318982	6401339
<i>Eucalyptus pterocarpa</i> (P3)	51 H	314356	6401382
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292585	6398227
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292553	6398284
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292566	6398288
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292567	6398247
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292569	6398282
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292584	6398231
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292584	6398639
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292602	6398639
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292609	6398257
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292616	6398650
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292617	6398603
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292618	6398263
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292621	6398600
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292623	6398276

Taxon	Zone	Easting	Northing
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293133	6398759
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293137	6398735
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293145	6398721
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293189	6398692
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293265	6398643
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293690	6398513
<i>Eucalyptus rhomboidea</i> (P4)	51 H	290876	6397785
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292661	6398531
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291523	6398045
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292661	6398531
<i>Eucalyptus rhomboidea</i> (P4)	51 H	290876	6397785
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291523	6398045
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292553	6398284
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292566	6398288
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292567	6398247
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292569	6398282
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292584	6398231
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292584	6398639
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292585	6398227
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292602	6398639
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292609	6398257
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292616	6398650
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292617	6398603
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292618	6398263
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292621	6398600
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292623	6398276
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293133	6398759
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293137	6398735
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293145	6398721
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293189	6398692
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293265	6398643
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293690	6398513
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293060	6398560
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293079	6398547
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293140	6398560
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293140	6398800
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293152	6398546
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293460	6398640
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293648	6398555
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293195	6398500
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293857	6398356
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292081	6399855
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292316	6399461
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293184	6398584
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293178	6398670
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293655	6398591
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293427	6398583
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293191	6398493

Taxon	Zone	Easting	Northing
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293269	6398368
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293194	6398238
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293312	6398277
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293273	6398348
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292930	6398462
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293148	6398573
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293709	6398537
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293821	6398440
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293465	6398605
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293415	6398629
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293175	6398655
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293101	6398542
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293061	6398524
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293040	6398499
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292631	6398495
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293276	6398336
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293233	6398303
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293259	6398304
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292720	6398143
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292688	6398142
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292637	6398175
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292580	6398224
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292606	6398190
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293177	6398488
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293129	6398502
<i>Eucalyptus rhomboidea</i> (P4)	51 H	290855	6396457
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291277	6402219
<i>Eucalyptus rhomboidea</i> (P4)	51 H	287699	6404375
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292074	6399852
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292075	6399819
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292080	6399749
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292115	6399707
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292142	6399702
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292157	6399709
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292278	6399369
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292303	6399360
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292329	6399356
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292369	6399434
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292391	6399474
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292310	6399524
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292305	6399544
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292296	6399622
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292286	6399783
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292287	6399814
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292392	6399452
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292384	6399450
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292379	6399450
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292371	6399455

Taxon	Zone	Easting	Northing
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292345	6399443
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292334	6399463
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292316	6399454
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291543	6401930
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291575	6401960
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293745	6397860
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292090	6399849
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292112	6399835
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292114	6399809
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292106	6399806
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292153	6399789
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292160	6399783
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292161	6399760
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292170	6399752
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292186	6399744
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292252	6399763
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292260	6399774
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292266	6399780
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292266	6399799
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292260	6399813
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292247	6399871
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292313	6399858
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292319	6399981
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292241	6400221
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292202	6400194
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292202	6400175
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292198	6400166
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292190	6400144
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292190	6400140
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292196	6400131
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292197	6400125
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292203	6400121
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292203	6400116
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292196	6400119
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292190	6400120
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292185	6400122
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292181	6400123
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292176	6400124
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292174	6400117
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292165	6400104
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292200	6400087
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292186	6400009
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292184	6400004
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292340	6399491
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292300	6399529
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291701	6400798
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292039	6400794
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292243	6400650

Taxon	Zone	Easting	Northing
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292277	6400657
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292270	6400644
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292248	6400641
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292244	6400639
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292241	6400637
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292240	6400636
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292236	6400635
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292235	6400634
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292232	6400628
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292232	6400627
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292238	6400625
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292263	6400620
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292271	6400612
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292273	6400610
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292283	6400611
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292281	6400597
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292253	6400594
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292245	6400591
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292244	6400595
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292240	6400612
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292239	6400615
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292236	6400617
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292234	6400617
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292235	6400616
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292235	6400614
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292234	6400591
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292231	6400589
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292230	6400587
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292225	6400575
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292085	6399852
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292075	6399851
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292085	6399844
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292089	6399841
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292098	6399836
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292112	6399833
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292112	6399812
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292106	6399805
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292146	6399745
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292142	6399744
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292141	6399734
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292127	6399724
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292121	6399713
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292213	6399771
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292210	6399780
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292221	6399802
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292215	6399806
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292213	6399818
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292203	6399829

Taxon	Zone	Easting	Northing
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292201	6399832
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292200	6399834
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292201	6399837
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292191	6399848
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292204	6399863
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292219	6399877
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292203	6399897
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292178	6399928
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292318	6399393
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292314	6399407
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292315	6399420
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292304	6399431
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291752	6399431
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292056	6400814
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292050	6400797
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292054	6400797
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292059	6400783
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292115	6400797
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292141	6400783
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292190	6400855
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292194	6400857
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292208	6400886
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292260	6400883
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292265	6400894
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292243	6400671
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292238	6400653
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292239	6400647
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292223	6400657
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292221	6400653
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292223	6400649
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292220	6400639
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292221	6400637
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292223	6400630
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292210	6400605
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292210	6400599
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292213	6400597
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292214	6400597
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292219	6400589
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292220	6400587
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292214	6400582
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292218	6400576
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292136	6400648
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292138	6400652
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292891	6398847
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292598	6398595
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292583	6398646
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292580	6398651
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291493	6401896

Taxon	Zone	Easting	Northing
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291511	6401922
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291541	6401956
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291565	6401975
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291555	6401998
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291478	6402048
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291328	6402223
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291329	6402308
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291156	6402361
<i>Eucalyptus rhomboidea</i> (P4)	51 H	291144	6402353
<i>Eucalyptus rhomboidea</i> (P4)	51 H	292083	6399855
<i>Eucalyptus rhomboidea</i> (P4)	51 H	294172	6398151
<i>Eucalyptus rhomboidea</i> (P4)	51 H	294065	6398191
<i>Eucalyptus rhomboidea</i> (P4)	51 H	294017	6398197
<i>Eucalyptus rhomboidea</i> (P4)	51 H	293858	6398323
<i>Hakea pendens</i> (P3)	51 H	292524	6398251
<i>Hakea pendens</i> (P3)	51 H	292532	6398259
<i>Hakea pendens</i> (P3)	51 H	292555	6398288
<i>Hakea pendens</i> (P3)	51 H	292556	6398268
<i>Hakea pendens</i> (P3)	51 H	292565	6398237
<i>Hakea pendens</i> (P3)	51 H	292596	6398235
<i>Hakea pendens</i> (P3)	51 H	292605	6398265
<i>Hakea pendens</i> (P3)	51 H	292633	6398265
<i>Hakea pendens</i> (P3)	51 H	292700	6398200
<i>Hakea pendens</i> (P3)	51 H	292712	6398176
<i>Hakea pendens</i> (P3)	51 H	292964	6398081
<i>Hakea pendens</i> (P3)	51 H	292969	6398126
<i>Hakea pendens</i> (P3)	51 H	293049	6398445
<i>Hakea pendens</i> (P3)	51 H	292513	6398303
<i>Hakea pendens</i> (P3)	51 H	292526	6398282
<i>Hakea pendens</i> (P3)	51 H	292530	6398302
<i>Hakea pendens</i> (P3)	51 H	292534	6398289
<i>Hakea pendens</i> (P3)	51 H	292642	6398479
<i>Hakea pendens</i> (P3)	51 H	292662	6398482
<i>Hakea pendens</i> (P3)	51 H	292528	6398259
<i>Hakea pendens</i> (P3)	51 H	292546	6398268
<i>Hakea pendens</i> (P3)	51 H	292551	6398276
<i>Hakea pendens</i> (P3)	51 H	292552	6398242
<i>Hakea pendens</i> (P3)	51 H	292560	6398266
<i>Hakea pendens</i> (P3)	51 H	292562	6398281
<i>Hakea pendens</i> (P3)	51 H	292562	6398237
<i>Hakea pendens</i> (P3)	51 H	292602	6398272
<i>Hakea pendens</i> (P3)	51 H	292607	6398250
<i>Hakea pendens</i> (P3)	51 H	292673	6398342
<i>Hakea pendens</i> (P3)	51 H	292681	6398569
<i>Hakea pendens</i> (P3)	51 H	292685	6398563
<i>Hakea pendens</i> (P3)	51 H	292699	6398581
<i>Hakea pendens</i> (P3)	51 H	292700	6398225
<i>Hakea pendens</i> (P3)	51 H	292701	6398520

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	292704	6398198
<i>Hakea pendens</i> (P3)	51 H	292733	6398273
<i>Hakea pendens</i> (P3)	51 H	292765	6398403
<i>Hakea pendens</i> (P3)	51 H	292770	6398362
<i>Hakea pendens</i> (P3)	51 H	292771	6398392
<i>Hakea pendens</i> (P3)	51 H	292777	6398345
<i>Hakea pendens</i> (P3)	51 H	292803	6398132
<i>Hakea pendens</i> (P3)	51 H	293177	6398714
<i>Hakea pendens</i> (P3)	51 H	293191	6398695
<i>Hakea pendens</i> (P3)	51 H	293192	6398754
<i>Hakea pendens</i> (P3)	51 H	293225	6398703
<i>Hakea pendens</i> (P3)	51 H	293255	6398678
<i>Hakea pendens</i> (P3)	51 H	293258	6398663
<i>Hakea pendens</i> (P3)	51 H	293258	6398613
<i>Hakea pendens</i> (P3)	51 H	293262	6398601
<i>Hakea pendens</i> (P3)	51 H	293269	6398613
<i>Hakea pendens</i> (P3)	51 H	293275	6398687
<i>Hakea pendens</i> (P3)	51 H	293278	6398671
<i>Hakea pendens</i> (P3)	51 H	293289	6398668
<i>Hakea pendens</i> (P3)	51 H	293333	6398686
<i>Hakea pendens</i> (P3)	51 H	293415	6398565
<i>Hakea pendens</i> (P3)	51 H	293423	6398443
<i>Hakea pendens</i> (P3)	51 H	293424	6398592
<i>Hakea pendens</i> (P3)	51 H	293537	6398886
<i>Hakea pendens</i> (P3)	51 H	293562	6398500
<i>Hakea pendens</i> (P3)	51 H	293721	6398456
<i>Hakea pendens</i> (P3)	51 H	293723	6398462
<i>Hakea pendens</i> (P3)	51 H	293744	6398452
<i>Hakea pendens</i> (P3)	51 H	293753	6398443
<i>Hakea pendens</i> (P3)	51 H	292469	6398383
<i>Hakea pendens</i> (P3)	51 H	292513	6398303
<i>Hakea pendens</i> (P3)	51 H	292524	6398251
<i>Hakea pendens</i> (P3)	51 H	292526	6398282
<i>Hakea pendens</i> (P3)	51 H	292528	6398259
<i>Hakea pendens</i> (P3)	51 H	292530	6398302
<i>Hakea pendens</i> (P3)	51 H	292532	6398259
<i>Hakea pendens</i> (P3)	51 H	292534	6398289
<i>Hakea pendens</i> (P3)	51 H	292546	6398268
<i>Hakea pendens</i> (P3)	51 H	292551	6398276
<i>Hakea pendens</i> (P3)	51 H	292552	6398242
<i>Hakea pendens</i> (P3)	51 H	292555	6398288
<i>Hakea pendens</i> (P3)	51 H	292556	6398268
<i>Hakea pendens</i> (P3)	51 H	292560	6398266
<i>Hakea pendens</i> (P3)	51 H	292562	6398237
<i>Hakea pendens</i> (P3)	51 H	292562	6398281
<i>Hakea pendens</i> (P3)	51 H	292565	6398237
<i>Hakea pendens</i> (P3)	51 H	292596	6398235
<i>Hakea pendens</i> (P3)	51 H	292602	6398272

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	292605	6398265
<i>Hakea pendens</i> (P3)	51 H	292607	6398250
<i>Hakea pendens</i> (P3)	51 H	292633	6398265
<i>Hakea pendens</i> (P3)	51 H	292642	6398479
<i>Hakea pendens</i> (P3)	51 H	292662	6398482
<i>Hakea pendens</i> (P3)	51 H	292673	6398342
<i>Hakea pendens</i> (P3)	51 H	292681	6398569
<i>Hakea pendens</i> (P3)	51 H	292685	6398563
<i>Hakea pendens</i> (P3)	51 H	292699	6398581
<i>Hakea pendens</i> (P3)	51 H	292700	6398200
<i>Hakea pendens</i> (P3)	51 H	292700	6398225
<i>Hakea pendens</i> (P3)	51 H	292701	6398520
<i>Hakea pendens</i> (P3)	51 H	292704	6398198
<i>Hakea pendens</i> (P3)	51 H	292712	6398176
<i>Hakea pendens</i> (P3)	51 H	292733	6398273
<i>Hakea pendens</i> (P3)	51 H	292765	6398403
<i>Hakea pendens</i> (P3)	51 H	292770	6398362
<i>Hakea pendens</i> (P3)	51 H	292771	6398392
<i>Hakea pendens</i> (P3)	51 H	292777	6398345
<i>Hakea pendens</i> (P3)	51 H	292803	6398132
<i>Hakea pendens</i> (P3)	51 H	292964	6398081
<i>Hakea pendens</i> (P3)	51 H	292969	6398126
<i>Hakea pendens</i> (P3)	51 H	293049	6398445
<i>Hakea pendens</i> (P3)	51 H	293177	6398714
<i>Hakea pendens</i> (P3)	51 H	293191	6398695
<i>Hakea pendens</i> (P3)	51 H	293192	6398754
<i>Hakea pendens</i> (P3)	51 H	293225	6398703
<i>Hakea pendens</i> (P3)	51 H	293255	6398678
<i>Hakea pendens</i> (P3)	51 H	293258	6398613
<i>Hakea pendens</i> (P3)	51 H	293258	6398663
<i>Hakea pendens</i> (P3)	51 H	293262	6398601
<i>Hakea pendens</i> (P3)	51 H	293269	6398613
<i>Hakea pendens</i> (P3)	51 H	293275	6398687
<i>Hakea pendens</i> (P3)	51 H	293278	6398671
<i>Hakea pendens</i> (P3)	51 H	293289	6398668
<i>Hakea pendens</i> (P3)	51 H	293333	6398686
<i>Hakea pendens</i> (P3)	51 H	293415	6398565
<i>Hakea pendens</i> (P3)	51 H	293423	6398443
<i>Hakea pendens</i> (P3)	51 H	293424	6398592
<i>Hakea pendens</i> (P3)	51 H	293537	6398886
<i>Hakea pendens</i> (P3)	51 H	293562	6398500
<i>Hakea pendens</i> (P3)	51 H	293721	6398456
<i>Hakea pendens</i> (P3)	51 H	293723	6398462
<i>Hakea pendens</i> (P3)	51 H	293744	6398452
<i>Hakea pendens</i> (P3)	51 H	293753	6398443
<i>Hakea pendens</i> (P3)	51 H	292457	6398468
<i>Hakea pendens</i> (P3)	51 H	292500	6398480
<i>Hakea pendens</i> (P3)	51 H	292600	6398246

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	292614	6398397
<i>Hakea pendens</i> (P3)	51 H	292628	6398244
<i>Hakea pendens</i> (P3)	51 H	292638	6398479
<i>Hakea pendens</i> (P3)	51 H	292660	6398480
<i>Hakea pendens</i> (P3)	51 H	292769	6398393
<i>Hakea pendens</i> (P3)	51 H	292820	6398400
<i>Hakea pendens</i> (P3)	51 H	292827	6398394
<i>Hakea pendens</i> (P3)	51 H	292921	6398386
<i>Hakea pendens</i> (P3)	51 H	292968	6398077
<i>Hakea pendens</i> (P3)	51 H	292980	6398400
<i>Hakea pendens</i> (P3)	51 H	292988	6398397
<i>Hakea pendens</i> (P3)	51 H	293099	6398470
<i>Hakea pendens</i> (P3)	51 H	293140	6398480
<i>Hakea pendens</i> (P3)	51 H	293155	6398480
<i>Hakea pendens</i> (P3)	51 H	293165	6398230
<i>Hakea pendens</i> (P3)	51 H	293168	6398481
<i>Hakea pendens</i> (P3)	51 H	293220	6398640
<i>Hakea pendens</i> (P3)	51 H	293235	6398706
<i>Hakea pendens</i> (P3)	51 H	293236	6398728
<i>Hakea pendens</i> (P3)	51 H	293246	6398391
<i>Hakea pendens</i> (P3)	51 H	293255	6398339
<i>Hakea pendens</i> (P3)	51 H	293339	6398564
<i>Hakea pendens</i> (P3)	51 H	293563	6398401
<i>Hakea pendens</i> (P3)	51 H	293764	6398397
<i>Hakea pendens</i> (P3)	51 H	292552	6398300
<i>Hakea pendens</i> (P3)	51 H	294171	6398129
<i>Hakea pendens</i> (P3)	51 H	293531	6398477
<i>Hakea pendens</i> (P3)	51 H	293266	6398624
<i>Hakea pendens</i> (P3)	51 H	293284	6398653
<i>Hakea pendens</i> (P3)	51 H	293297	6398437
<i>Hakea pendens</i> (P3)	51 H	293096	6398244
<i>Hakea pendens</i> (P3)	51 H	292938	6398111
<i>Hakea pendens</i> (P3)	51 H	292636	6398252
<i>Hakea pendens</i> (P3)	51 H	293076	6399092
<i>Hakea pendens</i> (P3)	51 H	293339	6399488
<i>Hakea pendens</i> (P3)	51 H	291972	6397402
<i>Hakea pendens</i> (P3)	51 H	291803	6397574
<i>Hakea pendens</i> (P3)	51 H	294174	6398130
<i>Hakea pendens</i> (P3)	51 H	293187	6398448
<i>Hakea pendens</i> (P3)	51 H	293188	6398453
<i>Hakea pendens</i> (P3)	51 H	293181	6398458
<i>Hakea pendens</i> (P3)	51 H	293180	6398464
<i>Hakea pendens</i> (P3)	51 H	293170	6398459
<i>Hakea pendens</i> (P3)	51 H	293152	6398447
<i>Hakea pendens</i> (P3)	51 H	293143	6398444
<i>Hakea pendens</i> (P3)	51 H	293108	6398462
<i>Hakea pendens</i> (P3)	51 H	293108	6398467
<i>Hakea pendens</i> (P3)	51 H	293118	6398487

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	293120	6398491
<i>Hakea pendens</i> (P3)	51 H	293121	6398496
<i>Hakea pendens</i> (P3)	51 H	293135	6398509
<i>Hakea pendens</i> (P3)	51 H	293293	6398353
<i>Hakea pendens</i> (P3)	51 H	293243	6398332
<i>Hakea pendens</i> (P3)	51 H	293046	6398220
<i>Hakea pendens</i> (P3)	51 H	292998	6398127
<i>Hakea pendens</i> (P3)	51 H	292601	6398212
<i>Hakea pendens</i> (P3)	51 H	292567	6398225
<i>Hakea pendens</i> (P3)	51 H	292565	6398216
<i>Hakea pendens</i> (P3)	51 H	292926	6398094
<i>Hakea pendens</i> (P3)	51 H	291814	6397489
<i>Hakea pendens</i> (P3)	51 H	291760	6397631
<i>Hakea pendens</i> (P3)	51 H	291717	6397628
<i>Hakea pendens</i> (P3)	51 H	293334	6399465
<i>Hakea pendens</i> (P3)	51 H	293314	6399500
<i>Hakea pendens</i> (P3)	51 H	293306	6399545
<i>Hakea pendens</i> (P3)	51 H	293311	6399550
<i>Hakea pendens</i> (P3)	51 H	293329	6399560
<i>Hakea pendens</i> (P3)	51 H	293330	6399557
<i>Hakea pendens</i> (P3)	51 H	293334	6399548
<i>Hakea pendens</i> (P3)	51 H	293336	6399541
<i>Hakea pendens</i> (P3)	51 H	293337	6399520
<i>Hakea pendens</i> (P3)	51 H	293343	6399517
<i>Hakea pendens</i> (P3)	51 H	293349	6399508
<i>Hakea pendens</i> (P3)	51 H	293348	6399499
<i>Hakea pendens</i> (P3)	51 H	293365	6399537
<i>Hakea pendens</i> (P3)	51 H	293334	6399590
<i>Hakea pendens</i> (P3)	51 H	293208	6398613
<i>Hakea pendens</i> (P3)	51 H	293201	6398643
<i>Hakea pendens</i> (P3)	51 H	293193	6398649
<i>Hakea pendens</i> (P3)	51 H	293187	6398658
<i>Hakea pendens</i> (P3)	51 H	293183	6398666
<i>Hakea pendens</i> (P3)	51 H	293178	6398670
<i>Hakea pendens</i> (P3)	51 H	293174	6398726
<i>Hakea pendens</i> (P3)	51 H	293185	6398734
<i>Hakea pendens</i> (P3)	51 H	293762	6398451
<i>Hakea pendens</i> (P3)	51 H	293752	6398445
<i>Hakea pendens</i> (P3)	51 H	293744	6398451
<i>Hakea pendens</i> (P3)	51 H	293737	6398456
<i>Hakea pendens</i> (P3)	51 H	293719	6398477
<i>Hakea pendens</i> (P3)	51 H	293615	6398501
<i>Hakea pendens</i> (P3)	51 H	293572	6398514
<i>Hakea pendens</i> (P3)	51 H	293564	6398516
<i>Hakea pendens</i> (P3)	51 H	293557	6398523
<i>Hakea pendens</i> (P3)	51 H	293531	6398555
<i>Hakea pendens</i> (P3)	51 H	293264	6398663
<i>Hakea pendens</i> (P3)	51 H	293250	6398670

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	293244	6398668
<i>Hakea pendens</i> (P3)	51 H	293201	6398657
<i>Hakea pendens</i> (P3)	51 H	293232	6398636
<i>Hakea pendens</i> (P3)	51 H	293242	6398624
<i>Hakea pendens</i> (P3)	51 H	293253	6398609
<i>Hakea pendens</i> (P3)	51 H	293281	6398610
<i>Hakea pendens</i> (P3)	51 H	293270	6398572
<i>Hakea pendens</i> (P3)	51 H	293144	6398498
<i>Hakea pendens</i> (P3)	51 H	293135	6398494
<i>Hakea pendens</i> (P3)	51 H	293124	6398489
<i>Hakea pendens</i> (P3)	51 H	293104	6398473
<i>Hakea pendens</i> (P3)	51 H	293011	6398367
<i>Hakea pendens</i> (P3)	51 H	292651	6398514
<i>Hakea pendens</i> (P3)	51 H	292658	6398504
<i>Hakea pendens</i> (P3)	51 H	293143	6398440
<i>Hakea pendens</i> (P3)	51 H	293151	6398445
<i>Hakea pendens</i> (P3)	51 H	293166	6398487
<i>Hakea pendens</i> (P3)	51 H	293181	6398493
<i>Hakea pendens</i> (P3)	51 H	293438	6398416
<i>Hakea pendens</i> (P3)	51 H	293262	6398376
<i>Hakea pendens</i> (P3)	51 H	292725	6398305
<i>Hakea pendens</i> (P3)	51 H	292764	6398290
<i>Hakea pendens</i> (P3)	51 H	292918	6398266
<i>Hakea pendens</i> (P3)	51 H	292637	6398231
<i>Hakea pendens</i> (P3)	51 H	292607	6398256
<i>Hakea pendens</i> (P3)	51 H	292504	6398396
<i>Hakea pendens</i> (P3)	51 H	292858	6398298
<i>Hakea pendens</i> (P3)	51 H	292874	6398288
<i>Hakea pendens</i> (P3)	51 H	293142	6398461
<i>Hakea pendens</i> (P3)	51 H	293151	6398469
<i>Hakea pendens</i> (P3)	51 H	293165	6398486
<i>Hakea pendens</i> (P3)	51 H	293171	6398490
<i>Hakea pendens</i> (P3)	51 H	293180	6398494
<i>Hakea pendens</i> (P3)	51 H	293455	6398438
<i>Hakea pendens</i> (P3)	51 H	293170	6398226
<i>Hakea pendens</i> (P3)	51 H	293182	6398230
<i>Hakea pendens</i> (P3)	51 H	293022	6398153
<i>Hakea pendens</i> (P3)	51 H	292596	6398250
<i>Hakea pendens</i> (P3)	51 H	292789	6398052
<i>Hakea pendens</i> (P3)	51 H	291844	6397488
<i>Hakea pendens</i> (P3)	51 H	291835	6397546
<i>Hakea pendens</i> (P3)	51 H	291845	6397571
<i>Hakea pendens</i> (P3)	51 H	291737	6397605
<i>Hakea pendens</i> (P3)	51 H	291744	6397652
<i>Hakea pendens</i> (P3)	51 H	293100	6398554
<i>Hakea pendens</i> (P3)	51 H	293102	6398554
<i>Hakea pendens</i> (P3)	51 H	293231	6398706
<i>Hakea pendens</i> (P3)	51 H	293226	6398723

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	293223	6398726
<i>Hakea pendens</i> (P3)	51 H	293211	6398748
<i>Hakea pendens</i> (P3)	51 H	293166	6398735
<i>Hakea pendens</i> (P3)	51 H	293169	6398720
<i>Hakea pendens</i> (P3)	51 H	293178	6398717
<i>Hakea pendens</i> (P3)	51 H	293182	6398717
<i>Hakea pendens</i> (P3)	51 H	293180	6398722
<i>Hakea pendens</i> (P3)	51 H	293183	6398725
<i>Hakea pendens</i> (P3)	51 H	293183	6398729
<i>Hakea pendens</i> (P3)	51 H	293405	6398617
<i>Hakea pendens</i> (P3)	51 H	293228	6398684
<i>Hakea pendens</i> (P3)	51 H	292650	6398515
<i>Hakea pendens</i> (P3)	51 H	293159	6398442
<i>Hakea pendens</i> (P3)	51 H	293162	6398440
<i>Hakea pendens</i> (P3)	51 H	293171	6398454
<i>Hakea pendens</i> (P3)	51 H	293173	6398462
<i>Hakea pendens</i> (P3)	51 H	293174	6398462
<i>Hakea pendens</i> (P3)	51 H	293180	6398467
<i>Hakea pendens</i> (P3)	51 H	293276	6398457
<i>Hakea pendens</i> (P3)	51 H	293282	6398461
<i>Hakea pendens</i> (P3)	51 H	293283	6398463
<i>Hakea pendens</i> (P3)	51 H	293454	6398494
<i>Hakea pendens</i> (P3)	51 H	293742	6398399
<i>Hakea pendens</i> (P3)	51 H	293758	6398397
<i>Hakea pendens</i> (P3)	51 H	293772	6398385
<i>Hakea pendens</i> (P3)	51 H	293819	6398303
<i>Hakea pendens</i> (P3)	51 H	293502	6398433
<i>Hakea pendens</i> (P3)	51 H	293477	6398428
<i>Hakea pendens</i> (P3)	51 H	293477	6398428
<i>Hakea pendens</i> (P3)	51 H	293460	6398431
<i>Hakea pendens</i> (P3)	51 H	293290	6398423
<i>Hakea pendens</i> (P3)	51 H	293286	6398419
<i>Hakea pendens</i> (P3)	51 H	293247	6398385
<i>Hakea pendens</i> (P3)	51 H	293237	6398387
<i>Hakea pendens</i> (P3)	51 H	292910	6398307
<i>Hakea pendens</i> (P3)	51 H	292854	6398294
<i>Hakea pendens</i> (P3)	51 H	292580	6398532
<i>Hakea pendens</i> (P3)	51 H	292918	6398272
<i>Hakea pendens</i> (P3)	51 H	293196	6398462
<i>Hakea pendens</i> (P3)	51 H	293196	6398465
<i>Hakea pendens</i> (P3)	51 H	293168	6398457
<i>Hakea pendens</i> (P3)	51 H	293146	6398449
<i>Hakea pendens</i> (P3)	51 H	293122	6398481
<i>Hakea pendens</i> (P3)	51 H	293145	6398502
<i>Hakea pendens</i> (P3)	51 H	293146	6398501
<i>Hakea pendens</i> (P3)	51 H	293297	6398283
<i>Hakea pendens</i> (P3)	51 H	293300	6398288
<i>Hakea pendens</i> (P3)	51 H	293299	6398290

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	293302	6398294
<i>Hakea pendens</i> (P3)	51 H	293342	6398295
<i>Hakea pendens</i> (P3)	51 H	293007	6398140
<i>Hakea pendens</i> (P3)	51 H	292594	6398228
<i>Hakea pendens</i> (P3)	51 H	292569	6398224
<i>Hakea pendens</i> (P3)	51 H	292566	6398207
<i>Hakea pendens</i> (P3)	51 H	291916	6397710
<i>Hakea pendens</i> (P3)	51 H	291912	6397708
<i>Hakea pendens</i> (P3)	51 H	293330	6399485
<i>Hakea pendens</i> (P3)	51 H	293331	6399487
<i>Hakea pendens</i> (P3)	51 H	293330	6399491
<i>Hakea pendens</i> (P3)	51 H	293335	6399492
<i>Hakea pendens</i> (P3)	51 H	293330	6399493
<i>Hakea pendens</i> (P3)	51 H	293322	6399506
<i>Hakea pendens</i> (P3)	51 H	293315	6399529
<i>Hakea pendens</i> (P3)	51 H	293311	6399539
<i>Hakea pendens</i> (P3)	51 H	293317	6399567
<i>Hakea pendens</i> (P3)	51 H	293317	6399566
<i>Hakea pendens</i> (P3)	51 H	293317	6399554
<i>Hakea pendens</i> (P3)	51 H	293318	6399552
<i>Hakea pendens</i> (P3)	51 H	293323	6399550
<i>Hakea pendens</i> (P3)	51 H	293323	6399546
<i>Hakea pendens</i> (P3)	51 H	293325	6399542
<i>Hakea pendens</i> (P3)	51 H	293327	6399537
<i>Hakea pendens</i> (P3)	51 H	293327	6399531
<i>Hakea pendens</i> (P3)	51 H	293331	6399513
<i>Hakea pendens</i> (P3)	51 H	293333	6399506
<i>Hakea pendens</i> (P3)	51 H	293335	6399496
<i>Hakea pendens</i> (P3)	51 H	293348	6399486
<i>Hakea pendens</i> (P3)	51 H	292934	6398459
<i>Hakea pendens</i> (P3)	51 H	293250	6398612
<i>Hakea pendens</i> (P3)	51 H	293258	6398617
<i>Hakea pendens</i> (P3)	51 H	293263	6398648
<i>Hakea pendens</i> (P3)	51 H	293255	6398702
<i>Hakea pendens</i> (P3)	51 H	293249	6398714
<i>Hakea pendens</i> (P3)	51 H	293227	6398746
<i>Hakea pendens</i> (P3)	51 H	293164	6398744
<i>Hakea pendens</i> (P3)	51 H	293171	6398730
<i>Hakea pendens</i> (P3)	51 H	293170	6398725
<i>Hakea pendens</i> (P3)	51 H	293169	6398719
<i>Hakea pendens</i> (P3)	51 H	293176	6398715
<i>Hakea pendens</i> (P3)	51 H	293190	6398715
<i>Hakea pendens</i> (P3)	51 H	293201	6398710
<i>Hakea pendens</i> (P3)	51 H	293186	6398740
<i>Hakea pendens</i> (P3)	51 H	293217	6398730
<i>Hakea pendens</i> (P3)	51 H	293563	6398550
<i>Hakea pendens</i> (P3)	51 H	293253	6398713
<i>Hakea pendens</i> (P3)	51 H	293242	6398714

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	293215	6398697
<i>Hakea pendens</i> (P3)	51 H	293208	6398696
<i>Hakea pendens</i> (P3)	51 H	293180	6398687
<i>Hakea pendens</i> (P3)	51 H	293181	6398654
<i>Hakea pendens</i> (P3)	51 H	293200	6398656
<i>Hakea pendens</i> (P3)	51 H	293239	6398622
<i>Hakea pendens</i> (P3)	51 H	292645	6398474
<i>Hakea pendens</i> (P3)	51 H	292657	6398466
<i>Hakea pendens</i> (P3)	51 H	293168	6398413
<i>Hakea pendens</i> (P3)	51 H	293185	6398438
<i>Hakea pendens</i> (P3)	51 H	293198	6398460
<i>Hakea pendens</i> (P3)	51 H	293259	6398423
<i>Hakea pendens</i> (P3)	51 H	293270	6398421
<i>Hakea pendens</i> (P3)	51 H	293277	6398428
<i>Hakea pendens</i> (P3)	51 H	293529	6398465
<i>Hakea pendens</i> (P3)	51 H	293544	6398455
<i>Hakea pendens</i> (P3)	51 H	293568	6398439
<i>Hakea pendens</i> (P3)	51 H	293738	6398383
<i>Hakea pendens</i> (P3)	51 H	293629	6398385
<i>Hakea pendens</i> (P3)	51 H	293532	6398456
<i>Hakea pendens</i> (P3)	51 H	293495	6398449
<i>Hakea pendens</i> (P3)	51 H	293296	6398441
<i>Hakea pendens</i> (P3)	51 H	293244	6398407
<i>Hakea pendens</i> (P3)	51 H	292910	6398311
<i>Hakea pendens</i> (P3)	51 H	292640	6398479
<i>Hakea pendens</i> (P3)	51 H	292638	6398484
<i>Hakea pendens</i> (P3)	51 H	292625	6398556
<i>Hakea pendens</i> (P3)	51 H	292642	6398561
<i>Hakea pendens</i> (P3)	51 H	292647	6398569
<i>Hakea pendens</i> (P3)	51 H	292680	6398563
<i>Hakea pendens</i> (P3)	51 H	292647	6398532
<i>Hakea pendens</i> (P3)	51 H	292734	6398268
<i>Hakea pendens</i> (P3)	51 H	292815	6398227
<i>Hakea pendens</i> (P3)	51 H	292727	6398237
<i>Hakea pendens</i> (P3)	51 H	292651	6398351
<i>Hakea pendens</i> (P3)	51 H	292770	6398272
<i>Hakea pendens</i> (P3)	51 H	293167	6398424
<i>Hakea pendens</i> (P3)	51 H	293171	6398457
<i>Hakea pendens</i> (P3)	51 H	293146	6398445
<i>Hakea pendens</i> (P3)	51 H	293130	6398459
<i>Hakea pendens</i> (P3)	51 H	293108	6398463
<i>Hakea pendens</i> (P3)	51 H	293102	6398469
<i>Hakea pendens</i> (P3)	51 H	293101	6398478
<i>Hakea pendens</i> (P3)	51 H	293105	6398488
<i>Hakea pendens</i> (P3)	51 H	293112	6398499
<i>Hakea pendens</i> (P3)	51 H	293128	6398514
<i>Hakea pendens</i> (P3)	51 H	293134	6398517
<i>Hakea pendens</i> (P3)	51 H	293476	6398336

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	293464	6398353
<i>Hakea pendens</i> (P3)	51 H	293317	6398362
<i>Hakea pendens</i> (P3)	51 H	293318	6398357
<i>Hakea pendens</i> (P3)	51 H	293313	6398350
<i>Hakea pendens</i> (P3)	51 H	293278	6398330
<i>Hakea pendens</i> (P3)	51 H	293277	6398309
<i>Hakea pendens</i> (P3)	51 H	293306	6398328
<i>Hakea pendens</i> (P3)	51 H	293310	6398293
<i>Hakea pendens</i> (P3)	51 H	293004	6398138
<i>Hakea pendens</i> (P3)	51 H	292980	6398125
<i>Hakea pendens</i> (P3)	51 H	292569	6398211
<i>Hakea pendens</i> (P3)	51 H	292939	6398103
<i>Hakea pendens</i> (P3)	51 H	291807	6397560
<i>Hakea pendens</i> (P3)	51 H	293326	6399596
<i>Hakea pendens</i> (P3)	51 H	293307	6399549
<i>Hakea pendens</i> (P3)	51 H	293311	6399556
<i>Hakea pendens</i> (P3)	51 H	293315	6399577
<i>Hakea pendens</i> (P3)	51 H	293338	6399577
<i>Hakea pendens</i> (P3)	51 H	293344	6399574
<i>Hakea pendens</i> (P3)	51 H	293345	6399562
<i>Hakea pendens</i> (P3)	51 H	293343	6399549
<i>Hakea pendens</i> (P3)	51 H	293352	6399541
<i>Hakea pendens</i> (P3)	51 H	293349	6399538
<i>Hakea pendens</i> (P3)	51 H	293350	6399525
<i>Hakea pendens</i> (P3)	51 H	293365	6399530
<i>Hakea pendens</i> (P3)	51 H	293357	6399544
<i>Hakea pendens</i> (P3)	51 H	293355	6399555
<i>Hakea pendens</i> (P3)	51 H	293344	6399568
<i>Hakea pendens</i> (P3)	51 H	293335	6399580
<i>Hakea pendens</i> (P3)	51 H	293330	6399586
<i>Hakea pendens</i> (P3)	51 H	266067	6428833
<i>Hakea pendens</i> (P3)	51 H	293284	6398318
<i>Hakea pendens</i> (P3)	51 H	293078	6399096
<i>Hakea pendens</i> (P3)	51 H	291957	6398380
<i>Hakea pendens</i> (P3)	51 H	291915	6398374
<i>Hakea pendens</i> (P3)	51 H	291952	6398383
<i>Hakea pendens</i> (P3)	51 H	291949	6398387
<i>Hakea pendens</i> (P3)	51 H	291947	6398393
<i>Hakea pendens</i> (P3)	51 H	291953	6398397
<i>Hakea pendens</i> (P3)	51 H	291956	6398397
<i>Hakea pendens</i> (P3)	51 H	291938	6398418
<i>Hakea pendens</i> (P3)	51 H	291947	6398433
<i>Hakea pendens</i> (P3)	51 H	291938	6398440
<i>Hakea pendens</i> (P3)	51 H	291989	6398547
<i>Hakea pendens</i> (P3)	51 H	291987	6398552
<i>Hakea pendens</i> (P3)	51 H	291984	6398554
<i>Hakea pendens</i> (P3)	51 H	292084	6398557
<i>Hakea pendens</i> (P3)	51 H	292088	6398560

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	292069	6398529
<i>Hakea pendens</i> (P3)	51 H	292064	6398532
<i>Hakea pendens</i> (P3)	51 H	292062	6398535
<i>Hakea pendens</i> (P3)	51 H	292061	6398534
<i>Hakea pendens</i> (P3)	51 H	292059	6398537
<i>Hakea pendens</i> (P3)	51 H	292052	6398532
<i>Hakea pendens</i> (P3)	51 H	292055	6398528
<i>Hakea pendens</i> (P3)	51 H	292057	6398529
<i>Hakea pendens</i> (P3)	51 H	292057	6398526
<i>Hakea pendens</i> (P3)	51 H	292057	6398525
<i>Hakea pendens</i> (P3)	51 H	292055	6398524
<i>Hakea pendens</i> (P3)	51 H	292056	6398521
<i>Hakea pendens</i> (P3)	51 H	292053	6398520
<i>Hakea pendens</i> (P3)	51 H	292050	6398523
<i>Hakea pendens</i> (P3)	51 H	292047	6398520
<i>Hakea pendens</i> (P3)	51 H	292053	6398518
<i>Hakea pendens</i> (P3)	51 H	292055	6398517
<i>Hakea pendens</i> (P3)	51 H	292057	6398519
<i>Hakea pendens</i> (P3)	51 H	292057	6398517
<i>Hakea pendens</i> (P3)	51 H	292054	6398508
<i>Hakea pendens</i> (P3)	51 H	292047	6398508
<i>Hakea pendens</i> (P3)	51 H	292044	6398509
<i>Hakea pendens</i> (P3)	51 H	292044	6398507
<i>Hakea pendens</i> (P3)	51 H	292043	6398506
<i>Hakea pendens</i> (P3)	51 H	292048	6398503
<i>Hakea pendens</i> (P3)	51 H	292048	6398501
<i>Hakea pendens</i> (P3)	51 H	292044	6398501
<i>Hakea pendens</i> (P3)	51 H	292038	6398501
<i>Hakea pendens</i> (P3)	51 H	292031	6398505
<i>Hakea pendens</i> (P3)	51 H	292041	6398487
<i>Hakea pendens</i> (P3)	51 H	291952	6398375
<i>Hakea pendens</i> (P3)	51 H	291951	6398378
<i>Hakea pendens</i> (P3)	51 H	291951	6398377
<i>Hakea pendens</i> (P3)	51 H	291950	6398379
<i>Hakea pendens</i> (P3)	51 H	291948	6398377
<i>Hakea pendens</i> (P3)	51 H	291948	6398377
<i>Hakea pendens</i> (P3)	51 H	291947	6398374
<i>Hakea pendens</i> (P3)	51 H	291949	6398374
<i>Hakea pendens</i> (P3)	51 H	291946	6398383
<i>Hakea pendens</i> (P3)	51 H	291946	6398381
<i>Hakea pendens</i> (P3)	51 H	291944	6398383
<i>Hakea pendens</i> (P3)	51 H	291944	6398383
<i>Hakea pendens</i> (P3)	51 H	291945	6398382
<i>Hakea pendens</i> (P3)	51 H	291944	6398381
<i>Hakea pendens</i> (P3)	51 H	291948	6398384
<i>Hakea pendens</i> (P3)	51 H	291947	6398386
<i>Hakea pendens</i> (P3)	51 H	291943	6398391
<i>Hakea pendens</i> (P3)	51 H	291943	6398392

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	291938	6398397
<i>Hakea pendens</i> (P3)	51 H	291936	6398397
<i>Hakea pendens</i> (P3)	51 H	291936	6398393
<i>Hakea pendens</i> (P3)	51 H	291934	6398399
<i>Hakea pendens</i> (P3)	51 H	291933	6398400
<i>Hakea pendens</i> (P3)	51 H	291933	6398401
<i>Hakea pendens</i> (P3)	51 H	291934	6398403
<i>Hakea pendens</i> (P3)	51 H	291934	6398403
<i>Hakea pendens</i> (P3)	51 H	291934	6398406
<i>Hakea pendens</i> (P3)	51 H	291937	6398409
<i>Hakea pendens</i> (P3)	51 H	291936	6398412
<i>Hakea pendens</i> (P3)	51 H	291952	6398380
<i>Hakea pendens</i> (P3)	51 H	291951	6398388
<i>Hakea pendens</i> (P3)	51 H	292052	6398565
<i>Hakea pendens</i> (P3)	51 H	292058	6398556
<i>Hakea pendens</i> (P3)	51 H	292055	6398550
<i>Hakea pendens</i> (P3)	51 H	292062	6398552
<i>Hakea pendens</i> (P3)	51 H	292065	6398549
<i>Hakea pendens</i> (P3)	51 H	292069	6398551
<i>Hakea pendens</i> (P3)	51 H	292066	6398554
<i>Hakea pendens</i> (P3)	51 H	292065	6398556
<i>Hakea pendens</i> (P3)	51 H	292070	6398530
<i>Hakea pendens</i> (P3)	51 H	292066	6398528
<i>Hakea pendens</i> (P3)	51 H	292082	6398544
<i>Hakea pendens</i> (P3)	51 H	292084	6398541
<i>Hakea pendens</i> (P3)	51 H	292064	6398532
<i>Hakea pendens</i> (P3)	51 H	291937	6398421
<i>Hakea pendens</i> (P3)	51 H	292063	6398528
<i>Hakea pendens</i> (P3)	51 H	292025	6398439
<i>Hakea pendens</i> (P3)	51 H	292005	6398407
<i>Hakea pendens</i> (P3)	51 H	291747	6398419
<i>Hakea pendens</i> (P3)	51 H	291722	6400362
<i>Hakea pendens</i> (P3)	51 H	291718	6400351
<i>Hakea pendens</i> (P3)	51 H	291705	6400347
<i>Hakea pendens</i> (P3)	51 H	291704	6400340
<i>Hakea pendens</i> (P3)	51 H	291696	6400346
<i>Hakea pendens</i> (P3)	51 H	291687	6400354
<i>Hakea pendens</i> (P3)	51 H	291688	6400336
<i>Hakea pendens</i> (P3)	51 H	291687	6400334
<i>Hakea pendens</i> (P3)	51 H	291693	6400333
<i>Hakea pendens</i> (P3)	51 H	291694	6400328
<i>Hakea pendens</i> (P3)	51 H	291692	6400318
<i>Hakea pendens</i> (P3)	51 H	291694	6400318
<i>Hakea pendens</i> (P3)	51 H	291695	6400317
<i>Hakea pendens</i> (P3)	51 H	291696	6400317
<i>Hakea pendens</i> (P3)	51 H	291697	6400317
<i>Hakea pendens</i> (P3)	51 H	291698	6400315
<i>Hakea pendens</i> (P3)	51 H	291700	6400315

Taxon	Zone	Easting	Northing
<i>Hakea pendens</i> (P3)	51 H	291699	6400311
<i>Hakea pendens</i> (P3)	51 H	291703	6400309
<i>Hakea pendens</i> (P3)	51 H	291704	6400308
<i>Hakea pendens</i> (P3)	51 H	291685	6400314
<i>Hakea pendens</i> (P3)	51 H	291684	6400308
<i>Hakea pendens</i> (P3)	51 H	291685	6400307
<i>Hakea pendens</i> (P3)	51 H	291688	6400307
<i>Hakea pendens</i> (P3)	51 H	291689	6400307
<i>Hakea pendens</i> (P3)	51 H	291685	6400312
<i>Hakea pendens</i> (P3)	51 H	291675	6400319
<i>Hakea pendens</i> (P3)	51 H	292076	6398525
<i>Hakea pendens</i> (P3)	51 H	292070	6398529
<i>Hakea pendens</i> (P3)	51 H	293097	6398223
<i>Hakea pendens</i> (P3)	51 H	293110	6398209
<i>Hakea pendens</i> (P3)	51 H	293110	6398195
<i>Hakea pendens</i> (P3)	51 H	293106	6398181
<i>Hakea pendens</i> (P3)	51 H	293106	6398179
<i>Hakea pendens</i> (P3)	51 H	293112	6398179
<i>Hakea pendens</i> (P3)	51 H	293115	6398139
<i>Hakea pendens</i> (P3)	51 H	294216	6398128
<i>Hakea pendens</i> (P3)	51 H	294199	6398133
<i>Hakea pendens</i> (P3)	51 H	294189	6398137
<i>Hakea pendens</i> (P3)	51 H	294145	6398144
<i>Hakea pendens</i> (P3)	51 H	294090	6398161
<i>Hakea pendens</i> (P3)	51 H	293824	6398326
<i>Hakea pendens</i> (P3)	51 H	293788	6398335
<i>Hakea pendens</i> (P3)	51 H	293765	6398337
<i>Hakea pendens</i> (P3)	51 H	291761	6397631
<i>Hakea pendens</i> (P3)	51 H	291756	6397615
<i>Hakea pendens</i> (P3)	51 H	292051	6397599
<i>Microcybe</i> sp. Windy Hill (G.F. Craig 6583) (P3)	51 H	291105	6397457
<i>Microcybe</i> sp. Windy Hill (G.F. Craig 6583) (P3)	51 H	291515	6397356
<i>Microcybe</i> sp. Windy Hill (G.F. Craig 6583) (P3)	51 H	294093	6403064
<i>Microcybe</i> sp. Windy Hill (G.F. Craig 6583) (P3)	51 H	294773	6401518
<i>Stenanthemum bremerense</i> (P4)	51 H	292501	6398349
<i>Stenanthemum bremerense</i> (P4)	51 H	292508	6398242
<i>Stenanthemum bremerense</i> (P4)	51 H	292509	6398246
<i>Stenanthemum bremerense</i> (P4)	51 H	292511	6398269
<i>Stenanthemum bremerense</i> (P4)	51 H	292514	6398271
<i>Stenanthemum bremerense</i> (P4)	51 H	292516	6398278
<i>Stenanthemum bremerense</i> (P4)	51 H	292526	6398237
<i>Stenanthemum bremerense</i> (P4)	51 H	292534	6398282
<i>Stenanthemum bremerense</i> (P4)	51 H	292540	6398268
<i>Stenanthemum bremerense</i> (P4)	51 H	292546	6398268
<i>Stenanthemum bremerense</i> (P4)	51 H	292546	6398279
<i>Stenanthemum bremerense</i> (P4)	51 H	292548	6398255
<i>Stenanthemum bremerense</i> (P4)	51 H	292549	6398366
<i>Stenanthemum bremerense</i> (P4)	51 H	292555	6398288

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	292556	6398268
<i>Stenanthemum bremerense</i> (P4)	51 H	292560	6398266
<i>Stenanthemum bremerense</i> (P4)	51 H	292562	6398293
<i>Stenanthemum bremerense</i> (P4)	51 H	292563	6398246
<i>Stenanthemum bremerense</i> (P4)	51 H	292565	6398237
<i>Stenanthemum bremerense</i> (P4)	51 H	292569	6398282
<i>Stenanthemum bremerense</i> (P4)	51 H	292573	6398286
<i>Stenanthemum bremerense</i> (P4)	51 H	292575	6398329
<i>Stenanthemum bremerense</i> (P4)	51 H	292576	6398296
<i>Stenanthemum bremerense</i> (P4)	51 H	292582	6398240
<i>Stenanthemum bremerense</i> (P4)	51 H	292585	6398227
<i>Stenanthemum bremerense</i> (P4)	51 H	292593	6398357
<i>Stenanthemum bremerense</i> (P4)	51 H	292602	6398368
<i>Stenanthemum bremerense</i> (P4)	51 H	292605	6398265
<i>Stenanthemum bremerense</i> (P4)	51 H	292612	6398383
<i>Stenanthemum bremerense</i> (P4)	51 H	292614	6398278
<i>Stenanthemum bremerense</i> (P4)	51 H	292617	6398441
<i>Stenanthemum bremerense</i> (P4)	51 H	292620	6398283
<i>Stenanthemum bremerense</i> (P4)	51 H	292621	6398440
<i>Stenanthemum bremerense</i> (P4)	51 H	292623	6398276
<i>Stenanthemum bremerense</i> (P4)	51 H	292626	6398296
<i>Stenanthemum bremerense</i> (P4)	51 H	292630	6398412
<i>Stenanthemum bremerense</i> (P4)	51 H	292633	6398265
<i>Stenanthemum bremerense</i> (P4)	51 H	292633	6398450
<i>Stenanthemum bremerense</i> (P4)	51 H	292635	6398262
<i>Stenanthemum bremerense</i> (P4)	51 H	292640	6398425
<i>Stenanthemum bremerense</i> (P4)	51 H	292640	6398437
<i>Stenanthemum bremerense</i> (P4)	51 H	292642	6398479
<i>Stenanthemum bremerense</i> (P4)	51 H	292645	6398313
<i>Stenanthemum bremerense</i> (P4)	51 H	292649	6398436
<i>Stenanthemum bremerense</i> (P4)	51 H	292650	6398321
<i>Stenanthemum bremerense</i> (P4)	51 H	292651	6398477
<i>Stenanthemum bremerense</i> (P4)	51 H	292653	6398242
<i>Stenanthemum bremerense</i> (P4)	51 H	292662	6398482
<i>Stenanthemum bremerense</i> (P4)	51 H	292671	6398455
<i>Stenanthemum bremerense</i> (P4)	51 H	292673	6398334
<i>Stenanthemum bremerense</i> (P4)	51 H	292677	6398425
<i>Stenanthemum bremerense</i> (P4)	51 H	292680	6398487
<i>Stenanthemum bremerense</i> (P4)	51 H	292688	6398351
<i>Stenanthemum bremerense</i> (P4)	51 H	292695	6398201
<i>Stenanthemum bremerense</i> (P4)	51 H	292695	6398203
<i>Stenanthemum bremerense</i> (P4)	51 H	292699	6398359
<i>Stenanthemum bremerense</i> (P4)	51 H	292700	6398200
<i>Stenanthemum bremerense</i> (P4)	51 H	292710	6398336
<i>Stenanthemum bremerense</i> (P4)	51 H	292713	6398202
<i>Stenanthemum bremerense</i> (P4)	51 H	292715	6398729
<i>Stenanthemum bremerense</i> (P4)	51 H	292721	6398296
<i>Stenanthemum bremerense</i> (P4)	51 H	292722	6398283

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	292726	6398248
<i>Stenanthemum bremerense</i> (P4)	51 H	292731	6398126
<i>Stenanthemum bremerense</i> (P4)	51 H	292734	6398426
<i>Stenanthemum bremerense</i> (P4)	51 H	292740	6398206
<i>Stenanthemum bremerense</i> (P4)	51 H	292757	6398435
<i>Stenanthemum bremerense</i> (P4)	51 H	292760	6398202
<i>Stenanthemum bremerense</i> (P4)	51 H	292765	6398403
<i>Stenanthemum bremerense</i> (P4)	51 H	292767	6398378
<i>Stenanthemum bremerense</i> (P4)	51 H	292770	6398362
<i>Stenanthemum bremerense</i> (P4)	51 H	292771	6398392
<i>Stenanthemum bremerense</i> (P4)	51 H	292774	6398204
<i>Stenanthemum bremerense</i> (P4)	51 H	292777	6398343
<i>Stenanthemum bremerense</i> (P4)	51 H	292778	6398224
<i>Stenanthemum bremerense</i> (P4)	51 H	292778	6398272
<i>Stenanthemum bremerense</i> (P4)	51 H	292779	6398438
<i>Stenanthemum bremerense</i> (P4)	51 H	292779	6398441
<i>Stenanthemum bremerense</i> (P4)	51 H	292780	6398175
<i>Stenanthemum bremerense</i> (P4)	51 H	292781	6398126
<i>Stenanthemum bremerense</i> (P4)	51 H	292782	6398345
<i>Stenanthemum bremerense</i> (P4)	51 H	292784	6398360
<i>Stenanthemum bremerense</i> (P4)	51 H	292785	6398151
<i>Stenanthemum bremerense</i> (P4)	51 H	292785	6398315
<i>Stenanthemum bremerense</i> (P4)	51 H	292787	6398293
<i>Stenanthemum bremerense</i> (P4)	51 H	292791	6398275
<i>Stenanthemum bremerense</i> (P4)	51 H	292803	6398132
<i>Stenanthemum bremerense</i> (P4)	51 H	292962	6398157
<i>Stenanthemum bremerense</i> (P4)	51 H	292969	6398104
<i>Stenanthemum bremerense</i> (P4)	51 H	292969	6398193
<i>Stenanthemum bremerense</i> (P4)	51 H	293017	6398281
<i>Stenanthemum bremerense</i> (P4)	51 H	293024	6398256
<i>Stenanthemum bremerense</i> (P4)	51 H	293042	6398303
<i>Stenanthemum bremerense</i> (P4)	51 H	293060	6399064
<i>Stenanthemum bremerense</i> (P4)	51 H	293085	6398358
<i>Stenanthemum bremerense</i> (P4)	51 H	293099	6398444
<i>Stenanthemum bremerense</i> (P4)	51 H	293384	6398528
<i>Stenanthemum bremerense</i> (P4)	51 H	293387	6398443
<i>Stenanthemum bremerense</i> (P4)	51 H	293389	6398478
<i>Stenanthemum bremerense</i> (P4)	51 H	293403	6398457
<i>Stenanthemum bremerense</i> (P4)	51 H	293408	6398415
<i>Stenanthemum bremerense</i> (P4)	51 H	293412	6398372
<i>Stenanthemum bremerense</i> (P4)	51 H	293412	6398454
<i>Stenanthemum bremerense</i> (P4)	51 H	293413	6398352
<i>Stenanthemum bremerense</i> (P4)	51 H	293417	6398547
<i>Stenanthemum bremerense</i> (P4)	51 H	293419	6398322
<i>Stenanthemum bremerense</i> (P4)	51 H	293422	6398285
<i>Stenanthemum bremerense</i> (P4)	51 H	293425	6398465
<i>Stenanthemum bremerense</i> (P4)	51 H	293459	6398294
<i>Stenanthemum bremerense</i> (P4)	51 H	293488	6398283

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	293516	6398278
<i>Stenanthemum bremerense</i> (P4)	51 H	293538	6398278
<i>Stenanthemum bremerense</i> (P4)	51 H	293554	6398509
<i>Stenanthemum bremerense</i> (P4)	51 H	293559	6398483
<i>Stenanthemum bremerense</i> (P4)	51 H	293577	6398444
<i>Stenanthemum bremerense</i> (P4)	51 H	293581	6398463
<i>Stenanthemum bremerense</i> (P4)	51 H	293582	6398286
<i>Stenanthemum bremerense</i> (P4)	51 H	293585	6398441
<i>Stenanthemum bremerense</i> (P4)	51 H	293603	6398284
<i>Stenanthemum bremerense</i> (P4)	51 H	293612	6398284
<i>Stenanthemum bremerense</i> (P4)	51 H	293615	6398446
<i>Stenanthemum bremerense</i> (P4)	51 H	293632	6398446
<i>Stenanthemum bremerense</i> (P4)	51 H	293664	6398466
<i>Stenanthemum bremerense</i> (P4)	51 H	293672	6398464
<i>Stenanthemum bremerense</i> (P4)	51 H	293677	6398274
<i>Stenanthemum bremerense</i> (P4)	51 H	293685	6398475
<i>Stenanthemum bremerense</i> (P4)	51 H	292092	6397335
<i>Stenanthemum bremerense</i> (P4)	51 H	292638	6398479
<i>Stenanthemum bremerense</i> (P4)	51 H	292660	6398160
<i>Stenanthemum bremerense</i> (P4)	51 H	292660	6398400
<i>Stenanthemum bremerense</i> (P4)	51 H	292660	6398480
<i>Stenanthemum bremerense</i> (P4)	51 H	292740	6398240
<i>Stenanthemum bremerense</i> (P4)	51 H	292740	6398320
<i>Stenanthemum bremerense</i> (P4)	51 H	292740	6398400
<i>Stenanthemum bremerense</i> (P4)	51 H	292820	6398080
<i>Stenanthemum bremerense</i> (P4)	51 H	292820	6398240
<i>Stenanthemum bremerense</i> (P4)	51 H	292900	6398240
<i>Stenanthemum bremerense</i> (P4)	51 H	292900	6398320
<i>Stenanthemum bremerense</i> (P4)	51 H	292980	6398160
<i>Stenanthemum bremerense</i> (P4)	51 H	292980	6398320
<i>Stenanthemum bremerense</i> (P4)	51 H	293009	6398398
<i>Stenanthemum bremerense</i> (P4)	51 H	293060	6398160
<i>Stenanthemum bremerense</i> (P4)	51 H	293060	6398240
<i>Stenanthemum bremerense</i> (P4)	51 H	293060	6398320
<i>Stenanthemum bremerense</i> (P4)	51 H	293092	6398471
<i>Stenanthemum bremerense</i> (P4)	51 H	293099	6398470
<i>Stenanthemum bremerense</i> (P4)	51 H	293140	6398160
<i>Stenanthemum bremerense</i> (P4)	51 H	293140	6398240
<i>Stenanthemum bremerense</i> (P4)	51 H	293140	6398400
<i>Stenanthemum bremerense</i> (P4)	51 H	293220	6398400
<i>Stenanthemum bremerense</i> (P4)	51 H	293220	6398560
<i>Stenanthemum bremerense</i> (P4)	51 H	293220	6398640
<i>Stenanthemum bremerense</i> (P4)	51 H	293300	6398320
<i>Stenanthemum bremerense</i> (P4)	51 H	293300	6398400
<i>Stenanthemum bremerense</i> (P4)	51 H	293333	6398487
<i>Stenanthemum bremerense</i> (P4)	51 H	293380	6398320
<i>Stenanthemum bremerense</i> (P4)	51 H	293380	6398400
<i>Stenanthemum bremerense</i> (P4)	51 H	293380	6398480

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	293399	6398528
<i>Stenanthemum bremerense</i> (P4)	51 H	293460	6398320
<i>Stenanthemum bremerense</i> (P4)	51 H	293460	6398400
<i>Stenanthemum bremerense</i> (P4)	51 H	293460	6398480
<i>Stenanthemum bremerense</i> (P4)	51 H	293540	6398480
<i>Stenanthemum bremerense</i> (P4)	51 H	293620	6398400
<i>Stenanthemum bremerense</i> (P4)	51 H	293620	6398480
<i>Stenanthemum bremerense</i> (P4)	51 H	293700	6398320
<i>Stenanthemum bremerense</i> (P4)	51 H	293700	6398400
<i>Stenanthemum bremerense</i> (P4)	51 H	293764	6398397
<i>Stenanthemum bremerense</i> (P4)	51 H	293780	6398320
<i>Stenanthemum bremerense</i> (P4)	51 H	293940	6398480
<i>Stenanthemum bremerense</i> (P4)	51 H	292552	6398300
<i>Stenanthemum bremerense</i> (P4)	51 H	294171	6398129
<i>Stenanthemum bremerense</i> (P4)	51 H	293531	6398477
<i>Stenanthemum bremerense</i> (P4)	51 H	293297	6398437
<i>Stenanthemum bremerense</i> (P4)	51 H	293096	6398244
<i>Stenanthemum bremerense</i> (P4)	51 H	292636	6398252
<i>Stenanthemum bremerense</i> (P4)	51 H	293160	6400198
<i>Stenanthemum bremerense</i> (P4)	51 H	292014	6399912
<i>Stenanthemum bremerense</i> (P4)	51 H	292090	6397585
<i>Stenanthemum bremerense</i> (P4)	51 H	291159	6397732
<i>Stenanthemum bremerense</i> (P4)	51 H	290916	6397715
<i>Stenanthemum bremerense</i> (P4)	51 H	290353	6397986
<i>Stenanthemum bremerense</i> (P4)	51 H	290667	6398167
<i>Stenanthemum bremerense</i> (P4)	51 H	290825	6398084
<i>Stenanthemum bremerense</i> (P4)	51 H	291337	6401794
<i>Stenanthemum bremerense</i> (P4)	51 H	291377	6401653
<i>Stenanthemum bremerense</i> (P4)	51 H	291498	6400724
<i>Stenanthemum bremerense</i> (P4)	51 H	292042	6398684
<i>Stenanthemum bremerense</i> (P4)	51 H	292005	6398705
<i>Stenanthemum bremerense</i> (P4)	51 H	291952	6398714
<i>Stenanthemum bremerense</i> (P4)	51 H	291861	6398800
<i>Stenanthemum bremerense</i> (P4)	51 H	291710	6398934
<i>Stenanthemum bremerense</i> (P4)	51 H	291874	6398319
<i>Stenanthemum bremerense</i> (P4)	51 H	291857	6398353
<i>Stenanthemum bremerense</i> (P4)	51 H	291855	6398337
<i>Stenanthemum bremerense</i> (P4)	51 H	291841	6398332
<i>Stenanthemum bremerense</i> (P4)	51 H	291859	6398321
<i>Stenanthemum bremerense</i> (P4)	51 H	291856	6398305
<i>Stenanthemum bremerense</i> (P4)	51 H	291847	6398356
<i>Stenanthemum bremerense</i> (P4)	51 H	291854	6398382
<i>Stenanthemum bremerense</i> (P4)	51 H	291847	6398386
<i>Stenanthemum bremerense</i> (P4)	51 H	291619	6400307
<i>Stenanthemum bremerense</i> (P4)	51 H	291603	6400384
<i>Stenanthemum bremerense</i> (P4)	51 H	288205	6403794
<i>Stenanthemum bremerense</i> (P4)	51 H	288201	6403762
<i>Stenanthemum bremerense</i> (P4)	51 H	288197	6403751

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	288240	6403558
<i>Stenanthemum bremerense</i> (P4)	51 H	288245	6403550
<i>Stenanthemum bremerense</i> (P4)	51 H	288250	6403538
<i>Stenanthemum bremerense</i> (P4)	51 H	288249	6403528
<i>Stenanthemum bremerense</i> (P4)	51 H	288243	6403494
<i>Stenanthemum bremerense</i> (P4)	51 H	288245	6403482
<i>Stenanthemum bremerense</i> (P4)	51 H	288247	6403475
<i>Stenanthemum bremerense</i> (P4)	51 H	287977	6403135
<i>Stenanthemum bremerense</i> (P4)	51 H	292037	6398669
<i>Stenanthemum bremerense</i> (P4)	51 H	292020	6398673
<i>Stenanthemum bremerense</i> (P4)	51 H	291990	6398677
<i>Stenanthemum bremerense</i> (P4)	51 H	291951	6398690
<i>Stenanthemum bremerense</i> (P4)	51 H	291943	6398695
<i>Stenanthemum bremerense</i> (P4)	51 H	291928	6398696
<i>Stenanthemum bremerense</i> (P4)	51 H	291843	6398799
<i>Stenanthemum bremerense</i> (P4)	51 H	291827	6398816
<i>Stenanthemum bremerense</i> (P4)	51 H	291814	6398821
<i>Stenanthemum bremerense</i> (P4)	51 H	291800	6398825
<i>Stenanthemum bremerense</i> (P4)	51 H	291794	6398828
<i>Stenanthemum bremerense</i> (P4)	51 H	291781	6398835
<i>Stenanthemum bremerense</i> (P4)	51 H	291768	6398839
<i>Stenanthemum bremerense</i> (P4)	51 H	291721	6398856
<i>Stenanthemum bremerense</i> (P4)	51 H	291697	6398869
<i>Stenanthemum bremerense</i> (P4)	51 H	291691	6398875
<i>Stenanthemum bremerense</i> (P4)	51 H	291683	6398884
<i>Stenanthemum bremerense</i> (P4)	51 H	291680	6398945
<i>Stenanthemum bremerense</i> (P4)	51 H	291686	6398954
<i>Stenanthemum bremerense</i> (P4)	51 H	291693	6398961
<i>Stenanthemum bremerense</i> (P4)	51 H	291701	6398969
<i>Stenanthemum bremerense</i> (P4)	51 H	291825	6398903
<i>Stenanthemum bremerense</i> (P4)	51 H	291828	6398889
<i>Stenanthemum bremerense</i> (P4)	51 H	291829	6398873
<i>Stenanthemum bremerense</i> (P4)	51 H	291840	6398838
<i>Stenanthemum bremerense</i> (P4)	51 H	291855	6398821
<i>Stenanthemum bremerense</i> (P4)	51 H	291874	6398801
<i>Stenanthemum bremerense</i> (P4)	51 H	291935	6398715
<i>Stenanthemum bremerense</i> (P4)	51 H	291949	6398709
<i>Stenanthemum bremerense</i> (P4)	51 H	291973	6398693
<i>Stenanthemum bremerense</i> (P4)	51 H	292009	6398666
<i>Stenanthemum bremerense</i> (P4)	51 H	292038	6398635
<i>Stenanthemum bremerense</i> (P4)	51 H	289683	6397436
<i>Stenanthemum bremerense</i> (P4)	51 H	289519	6398387
<i>Stenanthemum bremerense</i> (P4)	51 H	289524	6398398
<i>Stenanthemum bremerense</i> (P4)	51 H	289523	6398411
<i>Stenanthemum bremerense</i> (P4)	51 H	289510	6398435
<i>Stenanthemum bremerense</i> (P4)	51 H	289496	6398476
<i>Stenanthemum bremerense</i> (P4)	51 H	289486	6398479
<i>Stenanthemum bremerense</i> (P4)	51 H	289482	6398492

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	289471	6398504
<i>Stenanthemum bremerense</i> (P4)	51 H	289478	6398521
<i>Stenanthemum bremerense</i> (P4)	51 H	289493	6398528
<i>Stenanthemum bremerense</i> (P4)	51 H	289513	6398539
<i>Stenanthemum bremerense</i> (P4)	51 H	289491	6398569
<i>Stenanthemum bremerense</i> (P4)	51 H	289484	6398587
<i>Stenanthemum bremerense</i> (P4)	51 H	289472	6398594
<i>Stenanthemum bremerense</i> (P4)	51 H	289421	6398606
<i>Stenanthemum bremerense</i> (P4)	51 H	288702	6398441
<i>Stenanthemum bremerense</i> (P4)	51 H	289277	6397884
<i>Stenanthemum bremerense</i> (P4)	51 H	289286	6397877
<i>Stenanthemum bremerense</i> (P4)	51 H	289294	6397870
<i>Stenanthemum bremerense</i> (P4)	51 H	289301	6397865
<i>Stenanthemum bremerense</i> (P4)	51 H	289333	6397835
<i>Stenanthemum bremerense</i> (P4)	51 H	289342	6397822
<i>Stenanthemum bremerense</i> (P4)	51 H	289349	6397808
<i>Stenanthemum bremerense</i> (P4)	51 H	289375	6397786
<i>Stenanthemum bremerense</i> (P4)	51 H	289387	6397786
<i>Stenanthemum bremerense</i> (P4)	51 H	289395	6397786
<i>Stenanthemum bremerense</i> (P4)	51 H	289400	6397784
<i>Stenanthemum bremerense</i> (P4)	51 H	289407	6397782
<i>Stenanthemum bremerense</i> (P4)	51 H	289415	6397776
<i>Stenanthemum bremerense</i> (P4)	51 H	289421	6397775
<i>Stenanthemum bremerense</i> (P4)	51 H	289428	6397776
<i>Stenanthemum bremerense</i> (P4)	51 H	289446	6397773
<i>Stenanthemum bremerense</i> (P4)	51 H	289451	6397770
<i>Stenanthemum bremerense</i> (P4)	51 H	289461	6397770
<i>Stenanthemum bremerense</i> (P4)	51 H	289632	6397526
<i>Stenanthemum bremerense</i> (P4)	51 H	289648	6397488
<i>Stenanthemum bremerense</i> (P4)	51 H	289648	6397481
<i>Stenanthemum bremerense</i> (P4)	51 H	289647	6397472
<i>Stenanthemum bremerense</i> (P4)	51 H	289650	6397454
<i>Stenanthemum bremerense</i> (P4)	51 H	289655	6397441
<i>Stenanthemum bremerense</i> (P4)	51 H	291803	6398432
<i>Stenanthemum bremerense</i> (P4)	51 H	291635	6399062
<i>Stenanthemum bremerense</i> (P4)	51 H	291884	6398959
<i>Stenanthemum bremerense</i> (P4)	51 H	291652	6400320
<i>Stenanthemum bremerense</i> (P4)	51 H	291565	6400314
<i>Stenanthemum bremerense</i> (P4)	51 H	291538	6400313
<i>Stenanthemum bremerense</i> (P4)	51 H	291529	6400312
<i>Stenanthemum bremerense</i> (P4)	51 H	291458	6400306
<i>Stenanthemum bremerense</i> (P4)	51 H	291839	6398944
<i>Stenanthemum bremerense</i> (P4)	51 H	291896	6398884
<i>Stenanthemum bremerense</i> (P4)	51 H	291942	6398832
<i>Stenanthemum bremerense</i> (P4)	51 H	291970	6398803
<i>Stenanthemum bremerense</i> (P4)	51 H	292011	6398743
<i>Stenanthemum bremerense</i> (P4)	51 H	290864	6397705
<i>Stenanthemum bremerense</i> (P4)	51 H	291003	6397503

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	291017	6397468
<i>Stenanthemum bremerense</i> (P4)	51 H	290997	6397412
<i>Stenanthemum bremerense</i> (P4)	51 H	290151	6396164
<i>Stenanthemum bremerense</i> (P4)	51 H	289851	6396455
<i>Stenanthemum bremerense</i> (P4)	51 H	289694	6397086
<i>Stenanthemum bremerense</i> (P4)	51 H	293060	6399064
<i>Stenanthemum bremerense</i> (P4)	51 H	292540	6398268
<i>Stenanthemum bremerense</i> (P4)	51 H	292546	6398279
<i>Stenanthemum bremerense</i> (P4)	51 H	292555	6398288
<i>Stenanthemum bremerense</i> (P4)	51 H	292556	6398268
<i>Stenanthemum bremerense</i> (P4)	51 H	292563	6398246
<i>Stenanthemum bremerense</i> (P4)	51 H	292565	6398237
<i>Stenanthemum bremerense</i> (P4)	51 H	292573	6398286
<i>Stenanthemum bremerense</i> (P4)	51 H	292575	6398329
<i>Stenanthemum bremerense</i> (P4)	51 H	292576	6398296
<i>Stenanthemum bremerense</i> (P4)	51 H	292585	6398227
<i>Stenanthemum bremerense</i> (P4)	51 H	292605	6398265
<i>Stenanthemum bremerense</i> (P4)	51 H	292617	6398441
<i>Stenanthemum bremerense</i> (P4)	51 H	292620	6398283
<i>Stenanthemum bremerense</i> (P4)	51 H	292633	6398265
<i>Stenanthemum bremerense</i> (P4)	51 H	292635	6398262
<i>Stenanthemum bremerense</i> (P4)	51 H	292653	6398242
<i>Stenanthemum bremerense</i> (P4)	51 H	292677	6398425
<i>Stenanthemum bremerense</i> (P4)	51 H	292700	6398200
<i>Stenanthemum bremerense</i> (P4)	51 H	292731	6398126
<i>Stenanthemum bremerense</i> (P4)	51 H	292734	6398426
<i>Stenanthemum bremerense</i> (P4)	51 H	292757	6398435
<i>Stenanthemum bremerense</i> (P4)	51 H	292779	6398441
<i>Stenanthemum bremerense</i> (P4)	51 H	292962	6398157
<i>Stenanthemum bremerense</i> (P4)	51 H	292969	6398193
<i>Stenanthemum bremerense</i> (P4)	51 H	292969	6398104
<i>Stenanthemum bremerense</i> (P4)	51 H	293017	6398281
<i>Stenanthemum bremerense</i> (P4)	51 H	293024	6398256
<i>Stenanthemum bremerense</i> (P4)	51 H	293042	6398303
<i>Stenanthemum bremerense</i> (P4)	51 H	293085	6398358
<i>Stenanthemum bremerense</i> (P4)	51 H	293099	6398444
<i>Stenanthemum bremerense</i> (P4)	51 H	292501	6398349
<i>Stenanthemum bremerense</i> (P4)	51 H	292508	6398242
<i>Stenanthemum bremerense</i> (P4)	51 H	292509	6398246
<i>Stenanthemum bremerense</i> (P4)	51 H	292511	6398269
<i>Stenanthemum bremerense</i> (P4)	51 H	292514	6398271
<i>Stenanthemum bremerense</i> (P4)	51 H	292516	6398278
<i>Stenanthemum bremerense</i> (P4)	51 H	292534	6398282
<i>Stenanthemum bremerense</i> (P4)	51 H	292549	6398366
<i>Stenanthemum bremerense</i> (P4)	51 H	292593	6398357
<i>Stenanthemum bremerense</i> (P4)	51 H	292602	6398368
<i>Stenanthemum bremerense</i> (P4)	51 H	292612	6398383
<i>Stenanthemum bremerense</i> (P4)	51 H	292621	6398440

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	292630	6398412
<i>Stenanthemum bremerense</i> (P4)	51 H	292633	6398450
<i>Stenanthemum bremerense</i> (P4)	51 H	292640	6398437
<i>Stenanthemum bremerense</i> (P4)	51 H	292640	6398425
<i>Stenanthemum bremerense</i> (P4)	51 H	292642	6398479
<i>Stenanthemum bremerense</i> (P4)	51 H	292649	6398436
<i>Stenanthemum bremerense</i> (P4)	51 H	292651	6398477
<i>Stenanthemum bremerense</i> (P4)	51 H	292662	6398482
<i>Stenanthemum bremerense</i> (P4)	51 H	292671	6398455
<i>Stenanthemum bremerense</i> (P4)	51 H	292680	6398487
<i>Stenanthemum bremerense</i> (P4)	51 H	292526	6398237
<i>Stenanthemum bremerense</i> (P4)	51 H	292546	6398268
<i>Stenanthemum bremerense</i> (P4)	51 H	292548	6398255
<i>Stenanthemum bremerense</i> (P4)	51 H	292560	6398266
<i>Stenanthemum bremerense</i> (P4)	51 H	292562	6398293
<i>Stenanthemum bremerense</i> (P4)	51 H	292569	6398282
<i>Stenanthemum bremerense</i> (P4)	51 H	292582	6398240
<i>Stenanthemum bremerense</i> (P4)	51 H	292614	6398278
<i>Stenanthemum bremerense</i> (P4)	51 H	292623	6398276
<i>Stenanthemum bremerense</i> (P4)	51 H	292626	6398296
<i>Stenanthemum bremerense</i> (P4)	51 H	292645	6398313
<i>Stenanthemum bremerense</i> (P4)	51 H	292650	6398321
<i>Stenanthemum bremerense</i> (P4)	51 H	292673	6398334
<i>Stenanthemum bremerense</i> (P4)	51 H	292688	6398351
<i>Stenanthemum bremerense</i> (P4)	51 H	292695	6398203
<i>Stenanthemum bremerense</i> (P4)	51 H	292695	6398201
<i>Stenanthemum bremerense</i> (P4)	51 H	292699	6398359
<i>Stenanthemum bremerense</i> (P4)	51 H	292710	6398336
<i>Stenanthemum bremerense</i> (P4)	51 H	292713	6398202
<i>Stenanthemum bremerense</i> (P4)	51 H	292715	6398729
<i>Stenanthemum bremerense</i> (P4)	51 H	292721	6398296
<i>Stenanthemum bremerense</i> (P4)	51 H	292722	6398283
<i>Stenanthemum bremerense</i> (P4)	51 H	292726	6398248
<i>Stenanthemum bremerense</i> (P4)	51 H	292740	6398206
<i>Stenanthemum bremerense</i> (P4)	51 H	292760	6398202
<i>Stenanthemum bremerense</i> (P4)	51 H	292765	6398403
<i>Stenanthemum bremerense</i> (P4)	51 H	292767	6398378
<i>Stenanthemum bremerense</i> (P4)	51 H	292770	6398362
<i>Stenanthemum bremerense</i> (P4)	51 H	292771	6398392
<i>Stenanthemum bremerense</i> (P4)	51 H	292774	6398204
<i>Stenanthemum bremerense</i> (P4)	51 H	292777	6398343
<i>Stenanthemum bremerense</i> (P4)	51 H	292778	6398272
<i>Stenanthemum bremerense</i> (P4)	51 H	292778	6398224
<i>Stenanthemum bremerense</i> (P4)	51 H	292779	6398438
<i>Stenanthemum bremerense</i> (P4)	51 H	292780	6398175
<i>Stenanthemum bremerense</i> (P4)	51 H	292781	6398126
<i>Stenanthemum bremerense</i> (P4)	51 H	292782	6398345
<i>Stenanthemum bremerense</i> (P4)	51 H	292784	6398360

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	292785	6398315
<i>Stenanthemum bremerense</i> (P4)	51 H	292785	6398151
<i>Stenanthemum bremerense</i> (P4)	51 H	292787	6398293
<i>Stenanthemum bremerense</i> (P4)	51 H	292791	6398275
<i>Stenanthemum bremerense</i> (P4)	51 H	292803	6398132
<i>Stenanthemum bremerense</i> (P4)	51 H	293384	6398528
<i>Stenanthemum bremerense</i> (P4)	51 H	293387	6398443
<i>Stenanthemum bremerense</i> (P4)	51 H	293389	6398478
<i>Stenanthemum bremerense</i> (P4)	51 H	293403	6398457
<i>Stenanthemum bremerense</i> (P4)	51 H	293408	6398415
<i>Stenanthemum bremerense</i> (P4)	51 H	293412	6398372
<i>Stenanthemum bremerense</i> (P4)	51 H	293412	6398454
<i>Stenanthemum bremerense</i> (P4)	51 H	293413	6398352
<i>Stenanthemum bremerense</i> (P4)	51 H	293417	6398547
<i>Stenanthemum bremerense</i> (P4)	51 H	293419	6398322
<i>Stenanthemum bremerense</i> (P4)	51 H	293422	6398285
<i>Stenanthemum bremerense</i> (P4)	51 H	293425	6398465
<i>Stenanthemum bremerense</i> (P4)	51 H	293459	6398294
<i>Stenanthemum bremerense</i> (P4)	51 H	293488	6398283
<i>Stenanthemum bremerense</i> (P4)	51 H	293516	6398278
<i>Stenanthemum bremerense</i> (P4)	51 H	293538	6398278
<i>Stenanthemum bremerense</i> (P4)	51 H	293554	6398509
<i>Stenanthemum bremerense</i> (P4)	51 H	293559	6398483
<i>Stenanthemum bremerense</i> (P4)	51 H	293577	6398444
<i>Stenanthemum bremerense</i> (P4)	51 H	293581	6398463
<i>Stenanthemum bremerense</i> (P4)	51 H	293582	6398286
<i>Stenanthemum bremerense</i> (P4)	51 H	293585	6398441
<i>Stenanthemum bremerense</i> (P4)	51 H	293603	6398284
<i>Stenanthemum bremerense</i> (P4)	51 H	293612	6398284
<i>Stenanthemum bremerense</i> (P4)	51 H	293615	6398446
<i>Stenanthemum bremerense</i> (P4)	51 H	293632	6398446
<i>Stenanthemum bremerense</i> (P4)	51 H	293664	6398466
<i>Stenanthemum bremerense</i> (P4)	51 H	293672	6398464
<i>Stenanthemum bremerense</i> (P4)	51 H	293677	6398274
<i>Stenanthemum bremerense</i> (P4)	51 H	293685	6398475
<i>Stenanthemum bremerense</i> (P4)	51 H	296415	6397350
<i>Stenanthemum bremerense</i> (P4)	51 H	296291	6397393
<i>Stenanthemum bremerense</i> (P4)	51 H	296272	6397430
<i>Stenanthemum bremerense</i> (P4)	51 H	296245	6397352
<i>Stenanthemum bremerense</i> (P4)	51 H	296260	6397348
<i>Stenanthemum bremerense</i> (P4)	51 H	295466	6397306
<i>Stenanthemum bremerense</i> (P4)	51 H	295467	6397313
<i>Stenanthemum bremerense</i> (P4)	51 H	295469	6397317
<i>Stenanthemum bremerense</i> (P4)	51 H	295467	6397333
<i>Stenanthemum bremerense</i> (P4)	51 H	295458	6397330
<i>Stenanthemum bremerense</i> (P4)	51 H	295463	6397326
<i>Stenanthemum bremerense</i> (P4)	51 H	295463	6397325
<i>Stenanthemum bremerense</i> (P4)	51 H	295456	6397320

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	295449	6397315
<i>Stenanthemum bremerense</i> (P4)	51 H	295443	6397313
<i>Stenanthemum bremerense</i> (P4)	51 H	295428	6397318
<i>Stenanthemum bremerense</i> (P4)	51 H	295432	6397309
<i>Stenanthemum bremerense</i> (P4)	51 H	295435	6397306
<i>Stenanthemum bremerense</i> (P4)	51 H	295450	6397305
<i>Stenanthemum bremerense</i> (P4)	51 H	295460	6397304
<i>Stenanthemum bremerense</i> (P4)	51 H	295456	6397312
<i>Stenanthemum bremerense</i> (P4)	51 H	295444	6397309
<i>Stenanthemum bremerense</i> (P4)	51 H	295442	6397278
<i>Stenanthemum bremerense</i> (P4)	51 H	295450	6397277
<i>Stenanthemum bremerense</i> (P4)	51 H	295458	6397277
<i>Stenanthemum bremerense</i> (P4)	51 H	295465	6397268
<i>Stenanthemum bremerense</i> (P4)	51 H	295463	6397257
<i>Stenanthemum bremerense</i> (P4)	51 H	295479	6397254
<i>Stenanthemum bremerense</i> (P4)	51 H	295472	6397259
<i>Stenanthemum bremerense</i> (P4)	51 H	292530	6399677
<i>Stenanthemum bremerense</i> (P4)	51 H	292537	6399677
<i>Stenanthemum bremerense</i> (P4)	51 H	292540	6399693
<i>Stenanthemum bremerense</i> (P4)	51 H	292521	6399677
<i>Stenanthemum bremerense</i> (P4)	51 H	292517	6399683
<i>Stenanthemum bremerense</i> (P4)	51 H	292520	6399689
<i>Stenanthemum bremerense</i> (P4)	51 H	292524	6399696
<i>Stenanthemum bremerense</i> (P4)	51 H	292529	6399695
<i>Stenanthemum bremerense</i> (P4)	51 H	292519	6399670
<i>Stenanthemum bremerense</i> (P4)	51 H	292513	6399668
<i>Stenanthemum bremerense</i> (P4)	51 H	292499	6399669
<i>Stenanthemum bremerense</i> (P4)	51 H	292488	6399650
<i>Stenanthemum bremerense</i> (P4)	51 H	292498	6399655
<i>Stenanthemum bremerense</i> (P4)	51 H	292509	6399658
<i>Stenanthemum bremerense</i> (P4)	51 H	292517	6399653
<i>Stenanthemum bremerense</i> (P4)	51 H	292529	6399639
<i>Stenanthemum bremerense</i> (P4)	51 H	292541	6399630
<i>Stenanthemum bremerense</i> (P4)	51 H	292549	6399596
<i>Stenanthemum bremerense</i> (P4)	51 H	292543	6399566
<i>Stenanthemum bremerense</i> (P4)	51 H	291930	6400102
<i>Stenanthemum bremerense</i> (P4)	51 H	291941	6400099
<i>Stenanthemum bremerense</i> (P4)	51 H	291947	6400094
<i>Stenanthemum bremerense</i> (P4)	51 H	291955	6400101
<i>Stenanthemum bremerense</i> (P4)	51 H	291966	6400108
<i>Stenanthemum bremerense</i> (P4)	51 H	291997	6400179
<i>Stenanthemum bremerense</i> (P4)	51 H	291995	6400185
<i>Stenanthemum bremerense</i> (P4)	51 H	291976	6400193
<i>Stenanthemum bremerense</i> (P4)	51 H	291936	6400200
<i>Stenanthemum bremerense</i> (P4)	51 H	291927	6400202
<i>Stenanthemum bremerense</i> (P4)	51 H	291895	6400201
<i>Stenanthemum bremerense</i> (P4)	51 H	291907	6400158
<i>Stenanthemum bremerense</i> (P4)	51 H	291911	6400160

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	291926	6400166
<i>Stenanthemum bremerense</i> (P4)	51 H	291991	6400172
<i>Stenanthemum bremerense</i> (P4)	51 H	291959	6400141
<i>Stenanthemum bremerense</i> (P4)	51 H	291938	6400144
<i>Stenanthemum bremerense</i> (P4)	51 H	291941	6400134
<i>Stenanthemum bremerense</i> (P4)	51 H	291933	6400093
<i>Stenanthemum bremerense</i> (P4)	51 H	291934	6400078
<i>Stenanthemum bremerense</i> (P4)	51 H	291947	6400062
<i>Stenanthemum bremerense</i> (P4)	51 H	291962	6400069
<i>Stenanthemum bremerense</i> (P4)	51 H	291939	6400071
<i>Stenanthemum bremerense</i> (P4)	51 H	291919	6400063
<i>Stenanthemum bremerense</i> (P4)	51 H	291890	6400046
<i>Stenanthemum bremerense</i> (P4)	51 H	291882	6400024
<i>Stenanthemum bremerense</i> (P4)	51 H	291879	6399988
<i>Stenanthemum bremerense</i> (P4)	51 H	291898	6399958
<i>Stenanthemum bremerense</i> (P4)	51 H	291912	6399966
<i>Stenanthemum bremerense</i> (P4)	51 H	291937	6400015
<i>Stenanthemum bremerense</i> (P4)	51 H	291944	6399548
<i>Stenanthemum bremerense</i> (P4)	51 H	291940	6399550
<i>Stenanthemum bremerense</i> (P4)	51 H	291934	6399553
<i>Stenanthemum bremerense</i> (P4)	51 H	291929	6399560
<i>Stenanthemum bremerense</i> (P4)	51 H	291925	6399564
<i>Stenanthemum bremerense</i> (P4)	51 H	291911	6399567
<i>Stenanthemum bremerense</i> (P4)	51 H	291890	6399581
<i>Stenanthemum bremerense</i> (P4)	51 H	291875	6399585
<i>Stenanthemum bremerense</i> (P4)	51 H	291821	6399574
<i>Stenanthemum bremerense</i> (P4)	51 H	291815	6399564
<i>Stenanthemum bremerense</i> (P4)	51 H	291798	6399562
<i>Stenanthemum bremerense</i> (P4)	51 H	291767	6399556
<i>Stenanthemum bremerense</i> (P4)	51 H	291757	6399549
<i>Stenanthemum bremerense</i> (P4)	51 H	291758	6399528
<i>Stenanthemum bremerense</i> (P4)	51 H	291771	6399499
<i>Stenanthemum bremerense</i> (P4)	51 H	291792	6399435
<i>Stenanthemum bremerense</i> (P4)	51 H	291660	6400303
<i>Stenanthemum bremerense</i> (P4)	51 H	291638	6400325
<i>Stenanthemum bremerense</i> (P4)	51 H	291647	6400320
<i>Stenanthemum bremerense</i> (P4)	51 H	291659	6400320
<i>Stenanthemum bremerense</i> (P4)	51 H	291662	6400303
<i>Stenanthemum bremerense</i> (P4)	51 H	291635	6400304
<i>Stenanthemum bremerense</i> (P4)	51 H	291634	6400294
<i>Stenanthemum bremerense</i> (P4)	51 H	291626	6400276
<i>Stenanthemum bremerense</i> (P4)	51 H	291597	6400268
<i>Stenanthemum bremerense</i> (P4)	51 H	291538	6400282
<i>Stenanthemum bremerense</i> (P4)	51 H	291532	6400293
<i>Stenanthemum bremerense</i> (P4)	51 H	291525	6400304
<i>Stenanthemum bremerense</i> (P4)	51 H	291519	6400612
<i>Stenanthemum bremerense</i> (P4)	51 H	291519	6400620
<i>Stenanthemum bremerense</i> (P4)	51 H	291514	6400626

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	291506	6400630
<i>Stenanthemum bremerense</i> (P4)	51 H	291508	6400640
<i>Stenanthemum bremerense</i> (P4)	51 H	291507	6400643
<i>Stenanthemum bremerense</i> (P4)	51 H	291490	6400654
<i>Stenanthemum bremerense</i> (P4)	51 H	291468	6400672
<i>Stenanthemum bremerense</i> (P4)	51 H	291467	6400676
<i>Stenanthemum bremerense</i> (P4)	51 H	291501	6400742
<i>Stenanthemum bremerense</i> (P4)	51 H	291515	6400749
<i>Stenanthemum bremerense</i> (P4)	51 H	291526	6400776
<i>Stenanthemum bremerense</i> (P4)	51 H	291576	6400944
<i>Stenanthemum bremerense</i> (P4)	51 H	291574	6400949
<i>Stenanthemum bremerense</i> (P4)	51 H	291572	6400955
<i>Stenanthemum bremerense</i> (P4)	51 H	291553	6400961
<i>Stenanthemum bremerense</i> (P4)	51 H	291542	6400972
<i>Stenanthemum bremerense</i> (P4)	51 H	291552	6400995
<i>Stenanthemum bremerense</i> (P4)	51 H	291571	6401010
<i>Stenanthemum bremerense</i> (P4)	51 H	291588	6401023
<i>Stenanthemum bremerense</i> (P4)	51 H	291633	6401028
<i>Stenanthemum bremerense</i> (P4)	51 H	291688	6400862
<i>Stenanthemum bremerense</i> (P4)	51 H	291690	6400851
<i>Stenanthemum bremerense</i> (P4)	51 H	291955	6400414
<i>Stenanthemum bremerense</i> (P4)	51 H	291955	6400420
<i>Stenanthemum bremerense</i> (P4)	51 H	291954	6400438
<i>Stenanthemum bremerense</i> (P4)	51 H	291953	6400450
<i>Stenanthemum bremerense</i> (P4)	51 H	291950	6400460
<i>Stenanthemum bremerense</i> (P4)	51 H	291951	6400471
<i>Stenanthemum bremerense</i> (P4)	51 H	291920	6400477
<i>Stenanthemum bremerense</i> (P4)	51 H	291915	6400474
<i>Stenanthemum bremerense</i> (P4)	51 H	291907	6400468
<i>Stenanthemum bremerense</i> (P4)	51 H	291887	6400446
<i>Stenanthemum bremerense</i> (P4)	51 H	291889	6400440
<i>Stenanthemum bremerense</i> (P4)	51 H	291897	6400440
<i>Stenanthemum bremerense</i> (P4)	51 H	291903	6400437
<i>Stenanthemum bremerense</i> (P4)	51 H	291915	6400437
<i>Stenanthemum bremerense</i> (P4)	51 H	293210	6400157
<i>Stenanthemum bremerense</i> (P4)	51 H	293197	6400148
<i>Stenanthemum bremerense</i> (P4)	51 H	293175	6400132
<i>Stenanthemum bremerense</i> (P4)	51 H	293297	6400078
<i>Stenanthemum bremerense</i> (P4)	51 H	293308	6400089
<i>Stenanthemum bremerense</i> (P4)	51 H	293323	6400114
<i>Stenanthemum bremerense</i> (P4)	51 H	293311	6400132
<i>Stenanthemum bremerense</i> (P4)	51 H	293291	6400126
<i>Stenanthemum bremerense</i> (P4)	51 H	293285	6400126
<i>Stenanthemum bremerense</i> (P4)	51 H	293260	6400115
<i>Stenanthemum bremerense</i> (P4)	51 H	293216	6400119
<i>Stenanthemum bremerense</i> (P4)	51 H	293206	6400144
<i>Stenanthemum bremerense</i> (P4)	51 H	293197	6400166
<i>Stenanthemum bremerense</i> (P4)	51 H	293190	6400178

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	293186	6400187
<i>Stenanthemum bremerense</i> (P4)	51 H	293182	6400207
<i>Stenanthemum bremerense</i> (P4)	51 H	293176	6400220
<i>Stenanthemum bremerense</i> (P4)	51 H	293172	6400237
<i>Stenanthemum bremerense</i> (P4)	51 H	291961	6400098
<i>Stenanthemum bremerense</i> (P4)	51 H	291966	6400100
<i>Stenanthemum bremerense</i> (P4)	51 H	291976	6400113
<i>Stenanthemum bremerense</i> (P4)	51 H	291968	6400121
<i>Stenanthemum bremerense</i> (P4)	51 H	291964	6400120
<i>Stenanthemum bremerense</i> (P4)	51 H	291953	6400126
<i>Stenanthemum bremerense</i> (P4)	51 H	291951	6400136
<i>Stenanthemum bremerense</i> (P4)	51 H	291950	6400145
<i>Stenanthemum bremerense</i> (P4)	51 H	291949	6400150
<i>Stenanthemum bremerense</i> (P4)	51 H	291957	6400153
<i>Stenanthemum bremerense</i> (P4)	51 H	291961	6400153
<i>Stenanthemum bremerense</i> (P4)	51 H	291969	6400155
<i>Stenanthemum bremerense</i> (P4)	51 H	291980	6400157
<i>Stenanthemum bremerense</i> (P4)	51 H	291993	6400164
<i>Stenanthemum bremerense</i> (P4)	51 H	291999	6400164
<i>Stenanthemum bremerense</i> (P4)	51 H	291994	6400180
<i>Stenanthemum bremerense</i> (P4)	51 H	291993	6400183
<i>Stenanthemum bremerense</i> (P4)	51 H	291995	6400192
<i>Stenanthemum bremerense</i> (P4)	51 H	292000	6400194
<i>Stenanthemum bremerense</i> (P4)	51 H	292002	6400194
<i>Stenanthemum bremerense</i> (P4)	51 H	292007	6400192
<i>Stenanthemum bremerense</i> (P4)	51 H	292018	6400201
<i>Stenanthemum bremerense</i> (P4)	51 H	292005	6400207
<i>Stenanthemum bremerense</i> (P4)	51 H	291990	6400206
<i>Stenanthemum bremerense</i> (P4)	51 H	291987	6400211
<i>Stenanthemum bremerense</i> (P4)	51 H	291974	6400214
<i>Stenanthemum bremerense</i> (P4)	51 H	291966	6400218
<i>Stenanthemum bremerense</i> (P4)	51 H	291961	6400233
<i>Stenanthemum bremerense</i> (P4)	51 H	291958	6400244
<i>Stenanthemum bremerense</i> (P4)	51 H	291961	6400255
<i>Stenanthemum bremerense</i> (P4)	51 H	291966	6400257
<i>Stenanthemum bremerense</i> (P4)	51 H	291970	6400258
<i>Stenanthemum bremerense</i> (P4)	51 H	291982	6400268
<i>Stenanthemum bremerense</i> (P4)	51 H	291984	6400276
<i>Stenanthemum bremerense</i> (P4)	51 H	291986	6400284
<i>Stenanthemum bremerense</i> (P4)	51 H	291994	6400286
<i>Stenanthemum bremerense</i> (P4)	51 H	292000	6400285
<i>Stenanthemum bremerense</i> (P4)	51 H	292008	6400282
<i>Stenanthemum bremerense</i> (P4)	51 H	291983	6400298
<i>Stenanthemum bremerense</i> (P4)	51 H	291968	6400291
<i>Stenanthemum bremerense</i> (P4)	51 H	291964	6400285
<i>Stenanthemum bremerense</i> (P4)	51 H	291949	6400275
<i>Stenanthemum bremerense</i> (P4)	51 H	291964	6400238
<i>Stenanthemum bremerense</i> (P4)	51 H	291932	6400235

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	291925	6400220
<i>Stenanthemum bremerense</i> (P4)	51 H	291920	6400219
<i>Stenanthemum bremerense</i> (P4)	51 H	291906	6400217
<i>Stenanthemum bremerense</i> (P4)	51 H	291897	6400214
<i>Stenanthemum bremerense</i> (P4)	51 H	291893	6400203
<i>Stenanthemum bremerense</i> (P4)	51 H	291902	6400190
<i>Stenanthemum bremerense</i> (P4)	51 H	291912	6400174
<i>Stenanthemum bremerense</i> (P4)	51 H	291908	6400172
<i>Stenanthemum bremerense</i> (P4)	51 H	291902	6400172
<i>Stenanthemum bremerense</i> (P4)	51 H	291912	6400137
<i>Stenanthemum bremerense</i> (P4)	51 H	291913	6400130
<i>Stenanthemum bremerense</i> (P4)	51 H	291911	6400122
<i>Stenanthemum bremerense</i> (P4)	51 H	291941	6399548
<i>Stenanthemum bremerense</i> (P4)	51 H	291902	6399576
<i>Stenanthemum bremerense</i> (P4)	51 H	291891	6399578
<i>Stenanthemum bremerense</i> (P4)	51 H	291893	6399584
<i>Stenanthemum bremerense</i> (P4)	51 H	291895	6399591
<i>Stenanthemum bremerense</i> (P4)	51 H	291892	6399594
<i>Stenanthemum bremerense</i> (P4)	51 H	291886	6399589
<i>Stenanthemum bremerense</i> (P4)	51 H	291880	6399586
<i>Stenanthemum bremerense</i> (P4)	51 H	291880	6399587
<i>Stenanthemum bremerense</i> (P4)	51 H	291876	6399585
<i>Stenanthemum bremerense</i> (P4)	51 H	291869	6399588
<i>Stenanthemum bremerense</i> (P4)	51 H	291865	6399594
<i>Stenanthemum bremerense</i> (P4)	51 H	291860	6399581
<i>Stenanthemum bremerense</i> (P4)	51 H	291858	6399580
<i>Stenanthemum bremerense</i> (P4)	51 H	291855	6399577
<i>Stenanthemum bremerense</i> (P4)	51 H	291847	6399577
<i>Stenanthemum bremerense</i> (P4)	51 H	291844	6399581
<i>Stenanthemum bremerense</i> (P4)	51 H	291830	6399574
<i>Stenanthemum bremerense</i> (P4)	51 H	291825	6399575
<i>Stenanthemum bremerense</i> (P4)	51 H	291797	6399573
<i>Stenanthemum bremerense</i> (P4)	51 H	291791	6399572
<i>Stenanthemum bremerense</i> (P4)	51 H	291779	6399562
<i>Stenanthemum bremerense</i> (P4)	51 H	291767	6399560
<i>Stenanthemum bremerense</i> (P4)	51 H	291752	6399561
<i>Stenanthemum bremerense</i> (P4)	51 H	291747	6399548
<i>Stenanthemum bremerense</i> (P4)	51 H	291912	6399480
<i>Stenanthemum bremerense</i> (P4)	51 H	291678	6400295
<i>Stenanthemum bremerense</i> (P4)	51 H	291683	6400306
<i>Stenanthemum bremerense</i> (P4)	51 H	291663	6400319
<i>Stenanthemum bremerense</i> (P4)	51 H	291651	6400327
<i>Stenanthemum bremerense</i> (P4)	51 H	291654	6400333
<i>Stenanthemum bremerense</i> (P4)	51 H	291631	6400330
<i>Stenanthemum bremerense</i> (P4)	51 H	291648	6400331
<i>Stenanthemum bremerense</i> (P4)	51 H	291633	6400313
<i>Stenanthemum bremerense</i> (P4)	51 H	291627	6400312
<i>Stenanthemum bremerense</i> (P4)	51 H	291617	6400310

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	291610	6400290
<i>Stenanthemum bremerense</i> (P4)	51 H	291607	6400287
<i>Stenanthemum bremerense</i> (P4)	51 H	291600	6400286
<i>Stenanthemum bremerense</i> (P4)	51 H	291592	6400285
<i>Stenanthemum bremerense</i> (P4)	51 H	291586	6400282
<i>Stenanthemum bremerense</i> (P4)	51 H	291578	6400279
<i>Stenanthemum bremerense</i> (P4)	51 H	291554	6400288
<i>Stenanthemum bremerense</i> (P4)	51 H	291583	6400522
<i>Stenanthemum bremerense</i> (P4)	51 H	291593	6400528
<i>Stenanthemum bremerense</i> (P4)	51 H	291598	6400530
<i>Stenanthemum bremerense</i> (P4)	51 H	291589	6400534
<i>Stenanthemum bremerense</i> (P4)	51 H	291576	6400524
<i>Stenanthemum bremerense</i> (P4)	51 H	291575	6400535
<i>Stenanthemum bremerense</i> (P4)	51 H	291581	6400549
<i>Stenanthemum bremerense</i> (P4)	51 H	291584	6400552
<i>Stenanthemum bremerense</i> (P4)	51 H	291545	6400548
<i>Stenanthemum bremerense</i> (P4)	51 H	291539	6400551
<i>Stenanthemum bremerense</i> (P4)	51 H	291538	6400555
<i>Stenanthemum bremerense</i> (P4)	51 H	291535	6400560
<i>Stenanthemum bremerense</i> (P4)	51 H	291526	6400563
<i>Stenanthemum bremerense</i> (P4)	51 H	291525	6400569
<i>Stenanthemum bremerense</i> (P4)	51 H	291521	6400571
<i>Stenanthemum bremerense</i> (P4)	51 H	291516	6400576
<i>Stenanthemum bremerense</i> (P4)	51 H	291512	6400579
<i>Stenanthemum bremerense</i> (P4)	51 H	291508	6400582
<i>Stenanthemum bremerense</i> (P4)	51 H	291509	6400593
<i>Stenanthemum bremerense</i> (P4)	51 H	291514	6400597
<i>Stenanthemum bremerense</i> (P4)	51 H	291514	6400605
<i>Stenanthemum bremerense</i> (P4)	51 H	291520	6400614
<i>Stenanthemum bremerense</i> (P4)	51 H	291527	6400622
<i>Stenanthemum bremerense</i> (P4)	51 H	291519	6400627
<i>Stenanthemum bremerense</i> (P4)	51 H	291508	6400632
<i>Stenanthemum bremerense</i> (P4)	51 H	291504	6400635
<i>Stenanthemum bremerense</i> (P4)	51 H	291510	6400641
<i>Stenanthemum bremerense</i> (P4)	51 H	291515	6400641
<i>Stenanthemum bremerense</i> (P4)	51 H	291518	6400645
<i>Stenanthemum bremerense</i> (P4)	51 H	291522	6400647
<i>Stenanthemum bremerense</i> (P4)	51 H	291522	6400649
<i>Stenanthemum bremerense</i> (P4)	51 H	291525	6400648
<i>Stenanthemum bremerense</i> (P4)	51 H	291531	6400651
<i>Stenanthemum bremerense</i> (P4)	51 H	291534	6400658
<i>Stenanthemum bremerense</i> (P4)	51 H	291540	6400657
<i>Stenanthemum bremerense</i> (P4)	51 H	291543	6400654
<i>Stenanthemum bremerense</i> (P4)	51 H	291548	6400652
<i>Stenanthemum bremerense</i> (P4)	51 H	291553	6400647
<i>Stenanthemum bremerense</i> (P4)	51 H	291556	6400644
<i>Stenanthemum bremerense</i> (P4)	51 H	291563	6400646
<i>Stenanthemum bremerense</i> (P4)	51 H	291568	6400645

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	291574	6400641
<i>Stenanthemum bremerense</i> (P4)	51 H	291580	6400645
<i>Stenanthemum bremerense</i> (P4)	51 H	291587	6400650
<i>Stenanthemum bremerense</i> (P4)	51 H	291591	6400651
<i>Stenanthemum bremerense</i> (P4)	51 H	291593	6400651
<i>Stenanthemum bremerense</i> (P4)	51 H	291598	6400650
<i>Stenanthemum bremerense</i> (P4)	51 H	291603	6400647
<i>Stenanthemum bremerense</i> (P4)	51 H	291608	6400649
<i>Stenanthemum bremerense</i> (P4)	51 H	291611	6400648
<i>Stenanthemum bremerense</i> (P4)	51 H	291617	6400645
<i>Stenanthemum bremerense</i> (P4)	51 H	291619	6400651
<i>Stenanthemum bremerense</i> (P4)	51 H	291620	6400664
<i>Stenanthemum bremerense</i> (P4)	51 H	291637	6400649
<i>Stenanthemum bremerense</i> (P4)	51 H	291652	6400661
<i>Stenanthemum bremerense</i> (P4)	51 H	291659	6400655
<i>Stenanthemum bremerense</i> (P4)	51 H	291664	6400654
<i>Stenanthemum bremerense</i> (P4)	51 H	291668	6400651
<i>Stenanthemum bremerense</i> (P4)	51 H	291673	6400647
<i>Stenanthemum bremerense</i> (P4)	51 H	291672	6400644
<i>Stenanthemum bremerense</i> (P4)	51 H	291671	6400637
<i>Stenanthemum bremerense</i> (P4)	51 H	291667	6400633
<i>Stenanthemum bremerense</i> (P4)	51 H	291667	6400622
<i>Stenanthemum bremerense</i> (P4)	51 H	291686	6400625
<i>Stenanthemum bremerense</i> (P4)	51 H	291696	6400634
<i>Stenanthemum bremerense</i> (P4)	51 H	291702	6400647
<i>Stenanthemum bremerense</i> (P4)	51 H	291707	6400652
<i>Stenanthemum bremerense</i> (P4)	51 H	291703	6400659
<i>Stenanthemum bremerense</i> (P4)	51 H	291708	6400669
<i>Stenanthemum bremerense</i> (P4)	51 H	291706	6400680
<i>Stenanthemum bremerense</i> (P4)	51 H	291708	6400681
<i>Stenanthemum bremerense</i> (P4)	51 H	291713	6400682
<i>Stenanthemum bremerense</i> (P4)	51 H	291722	6400682
<i>Stenanthemum bremerense</i> (P4)	51 H	291726	6400679
<i>Stenanthemum bremerense</i> (P4)	51 H	291732	6400676
<i>Stenanthemum bremerense</i> (P4)	51 H	291736	6400678
<i>Stenanthemum bremerense</i> (P4)	51 H	291741	6400690
<i>Stenanthemum bremerense</i> (P4)	51 H	291738	6400696
<i>Stenanthemum bremerense</i> (P4)	51 H	291739	6400701
<i>Stenanthemum bremerense</i> (P4)	51 H	291710	6400715
<i>Stenanthemum bremerense</i> (P4)	51 H	291707	6400718
<i>Stenanthemum bremerense</i> (P4)	51 H	291701	6400729
<i>Stenanthemum bremerense</i> (P4)	51 H	291701	6400738
<i>Stenanthemum bremerense</i> (P4)	51 H	291706	6400744
<i>Stenanthemum bremerense</i> (P4)	51 H	291708	6400759
<i>Stenanthemum bremerense</i> (P4)	51 H	291709	6400766
<i>Stenanthemum bremerense</i> (P4)	51 H	291701	6400798
<i>Stenanthemum bremerense</i> (P4)	51 H	291949	6400405
<i>Stenanthemum bremerense</i> (P4)	51 H	291940	6400394

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	291934	6400394
<i>Stenanthemum bremerense</i> (P4)	51 H	291928	6400395
<i>Stenanthemum bremerense</i> (P4)	51 H	291915	6400392
<i>Stenanthemum bremerense</i> (P4)	51 H	291905	6400392
<i>Stenanthemum bremerense</i> (P4)	51 H	291901	6400393
<i>Stenanthemum bremerense</i> (P4)	51 H	291894	6400397
<i>Stenanthemum bremerense</i> (P4)	51 H	291889	6400410
<i>Stenanthemum bremerense</i> (P4)	51 H	291889	6400413
<i>Stenanthemum bremerense</i> (P4)	51 H	291884	6400423
<i>Stenanthemum bremerense</i> (P4)	51 H	291888	6400434
<i>Stenanthemum bremerense</i> (P4)	51 H	291891	6400437
<i>Stenanthemum bremerense</i> (P4)	51 H	291888	6400444
<i>Stenanthemum bremerense</i> (P4)	51 H	291897	6400453
<i>Stenanthemum bremerense</i> (P4)	51 H	291900	6400455
<i>Stenanthemum bremerense</i> (P4)	51 H	291900	6400458
<i>Stenanthemum bremerense</i> (P4)	51 H	291900	6400461
<i>Stenanthemum bremerense</i> (P4)	51 H	291901	6400464
<i>Stenanthemum bremerense</i> (P4)	51 H	291899	6400471
<i>Stenanthemum bremerense</i> (P4)	51 H	291900	6400474
<i>Stenanthemum bremerense</i> (P4)	51 H	291901	6400476
<i>Stenanthemum bremerense</i> (P4)	51 H	291899	6400479
<i>Stenanthemum bremerense</i> (P4)	51 H	293223	6400162
<i>Stenanthemum bremerense</i> (P4)	51 H	293230	6400152
<i>Stenanthemum bremerense</i> (P4)	51 H	293230	6400149
<i>Stenanthemum bremerense</i> (P4)	51 H	293233	6400144
<i>Stenanthemum bremerense</i> (P4)	51 H	293241	6400138
<i>Stenanthemum bremerense</i> (P4)	51 H	293248	6400133
<i>Stenanthemum bremerense</i> (P4)	51 H	293251	6400139
<i>Stenanthemum bremerense</i> (P4)	51 H	293257	6400142
<i>Stenanthemum bremerense</i> (P4)	51 H	293264	6400145
<i>Stenanthemum bremerense</i> (P4)	51 H	293267	6400158
<i>Stenanthemum bremerense</i> (P4)	51 H	293267	6400162
<i>Stenanthemum bremerense</i> (P4)	51 H	293280	6400163
<i>Stenanthemum bremerense</i> (P4)	51 H	293283	6400152
<i>Stenanthemum bremerense</i> (P4)	51 H	293284	6400144
<i>Stenanthemum bremerense</i> (P4)	51 H	293290	6400141
<i>Stenanthemum bremerense</i> (P4)	51 H	293298	6400135
<i>Stenanthemum bremerense</i> (P4)	51 H	293312	6400137
<i>Stenanthemum bremerense</i> (P4)	51 H	293319	6400134
<i>Stenanthemum bremerense</i> (P4)	51 H	293322	6400138
<i>Stenanthemum bremerense</i> (P4)	51 H	293323	6400129
<i>Stenanthemum bremerense</i> (P4)	51 H	293307	6400119
<i>Stenanthemum bremerense</i> (P4)	51 H	293302	6400113
<i>Stenanthemum bremerense</i> (P4)	51 H	293311	6400110
<i>Stenanthemum bremerense</i> (P4)	51 H	293318	6400106
<i>Stenanthemum bremerense</i> (P4)	51 H	293310	6400098
<i>Stenanthemum bremerense</i> (P4)	51 H	293309	6400094
<i>Stenanthemum bremerense</i> (P4)	51 H	293312	6400090

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	293307	6400078
<i>Stenanthemum bremerense</i> (P4)	51 H	293294	6400074
<i>Stenanthemum bremerense</i> (P4)	51 H	293288	6400085
<i>Stenanthemum bremerense</i> (P4)	51 H	293280	6400086
<i>Stenanthemum bremerense</i> (P4)	51 H	293267	6400082
<i>Stenanthemum bremerense</i> (P4)	51 H	293265	6400075
<i>Stenanthemum bremerense</i> (P4)	51 H	293256	6400071
<i>Stenanthemum bremerense</i> (P4)	51 H	293249	6400073
<i>Stenanthemum bremerense</i> (P4)	51 H	293250	6400095
<i>Stenanthemum bremerense</i> (P4)	51 H	293249	6400101
<i>Stenanthemum bremerense</i> (P4)	51 H	293247	6400107
<i>Stenanthemum bremerense</i> (P4)	51 H	293244	6400108
<i>Stenanthemum bremerense</i> (P4)	51 H	293239	6400109
<i>Stenanthemum bremerense</i> (P4)	51 H	293232	6400114
<i>Stenanthemum bremerense</i> (P4)	51 H	293224	6400115
<i>Stenanthemum bremerense</i> (P4)	51 H	293218	6400114
<i>Stenanthemum bremerense</i> (P4)	51 H	293212	6400120
<i>Stenanthemum bremerense</i> (P4)	51 H	293207	6400119
<i>Stenanthemum bremerense</i> (P4)	51 H	293194	6400124
<i>Stenanthemum bremerense</i> (P4)	51 H	293188	6400125
<i>Stenanthemum bremerense</i> (P4)	51 H	293179	6400129
<i>Stenanthemum bremerense</i> (P4)	51 H	293176	6400142
<i>Stenanthemum bremerense</i> (P4)	51 H	293177	6400145
<i>Stenanthemum bremerense</i> (P4)	51 H	293183	6400155
<i>Stenanthemum bremerense</i> (P4)	51 H	293178	6400165
<i>Stenanthemum bremerense</i> (P4)	51 H	293176	6400170
<i>Stenanthemum bremerense</i> (P4)	51 H	293172	6400172
<i>Stenanthemum bremerense</i> (P4)	51 H	293169	6400174
<i>Stenanthemum bremerense</i> (P4)	51 H	293166	6400176
<i>Stenanthemum bremerense</i> (P4)	51 H	293162	6400185
<i>Stenanthemum bremerense</i> (P4)	51 H	293166	6400205
<i>Stenanthemum bremerense</i> (P4)	51 H	293161	6400212
<i>Stenanthemum bremerense</i> (P4)	51 H	293170	6400210
<i>Stenanthemum bremerense</i> (P4)	51 H	293172	6400214
<i>Stenanthemum bremerense</i> (P4)	51 H	293172	6400218
<i>Stenanthemum bremerense</i> (P4)	51 H	293172	6400223
<i>Stenanthemum bremerense</i> (P4)	51 H	293181	6400237
<i>Stenanthemum bremerense</i> (P4)	51 H	293182	6400240
<i>Stenanthemum bremerense</i> (P4)	51 H	293179	6400243
<i>Stenanthemum bremerense</i> (P4)	51 H	293177	6400248
<i>Stenanthemum bremerense</i> (P4)	51 H	293180	6400253
<i>Stenanthemum bremerense</i> (P4)	51 H	293196	6400256
<i>Stenanthemum bremerense</i> (P4)	51 H	293208	6400259
<i>Stenanthemum bremerense</i> (P4)	51 H	293211	6400259
<i>Stenanthemum bremerense</i> (P4)	51 H	296391	6397310
<i>Stenanthemum bremerense</i> (P4)	51 H	296397	6397319
<i>Stenanthemum bremerense</i> (P4)	51 H	296403	6397358
<i>Stenanthemum bremerense</i> (P4)	51 H	296388	6397352

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	296374	6397359
<i>Stenanthemum bremerense</i> (P4)	51 H	296345	6397372
<i>Stenanthemum bremerense</i> (P4)	51 H	296333	6397375
<i>Stenanthemum bremerense</i> (P4)	51 H	296312	6397362
<i>Stenanthemum bremerense</i> (P4)	51 H	296305	6397372
<i>Stenanthemum bremerense</i> (P4)	51 H	296294	6397377
<i>Stenanthemum bremerense</i> (P4)	51 H	296273	6397391
<i>Stenanthemum bremerense</i> (P4)	51 H	296268	6397399
<i>Stenanthemum bremerense</i> (P4)	51 H	296268	6397403
<i>Stenanthemum bremerense</i> (P4)	51 H	296272	6397412
<i>Stenanthemum bremerense</i> (P4)	51 H	296273	6397417
<i>Stenanthemum bremerense</i> (P4)	51 H	296266	6397430
<i>Stenanthemum bremerense</i> (P4)	51 H	296251	6397418
<i>Stenanthemum bremerense</i> (P4)	51 H	296247	6397419
<i>Stenanthemum bremerense</i> (P4)	51 H	296240	6397419
<i>Stenanthemum bremerense</i> (P4)	51 H	296234	6397419
<i>Stenanthemum bremerense</i> (P4)	51 H	296224	6397414
<i>Stenanthemum bremerense</i> (P4)	51 H	296214	6397413
<i>Stenanthemum bremerense</i> (P4)	51 H	296210	6397415
<i>Stenanthemum bremerense</i> (P4)	51 H	296201	6397406
<i>Stenanthemum bremerense</i> (P4)	51 H	296223	6397372
<i>Stenanthemum bremerense</i> (P4)	51 H	296226	6397375
<i>Stenanthemum bremerense</i> (P4)	51 H	296240	6397379
<i>Stenanthemum bremerense</i> (P4)	51 H	296251	6397378
<i>Stenanthemum bremerense</i> (P4)	51 H	296260	6397377
<i>Stenanthemum bremerense</i> (P4)	51 H	296268	6397375
<i>Stenanthemum bremerense</i> (P4)	51 H	296270	6397369
<i>Stenanthemum bremerense</i> (P4)	51 H	296280	6397365
<i>Stenanthemum bremerense</i> (P4)	51 H	296285	6397355
<i>Stenanthemum bremerense</i> (P4)	51 H	296285	6397346
<i>Stenanthemum bremerense</i> (P4)	51 H	296295	6397313
<i>Stenanthemum bremerense</i> (P4)	51 H	292905	6397837
<i>Stenanthemum bremerense</i> (P4)	51 H	293120	6398131
<i>Stenanthemum bremerense</i> (P4)	51 H	293118	6398123
<i>Stenanthemum bremerense</i> (P4)	51 H	293126	6398106
<i>Stenanthemum bremerense</i> (P4)	51 H	295465	6397299
<i>Stenanthemum bremerense</i> (P4)	51 H	295470	6397306
<i>Stenanthemum bremerense</i> (P4)	51 H	295475	6397312
<i>Stenanthemum bremerense</i> (P4)	51 H	295468	6397322
<i>Stenanthemum bremerense</i> (P4)	51 H	295462	6397323
<i>Stenanthemum bremerense</i> (P4)	51 H	295463	6397325
<i>Stenanthemum bremerense</i> (P4)	51 H	295464	6397328
<i>Stenanthemum bremerense</i> (P4)	51 H	295467	6397330
<i>Stenanthemum bremerense</i> (P4)	51 H	295469	6397335
<i>Stenanthemum bremerense</i> (P4)	51 H	295470	6397337
<i>Stenanthemum bremerense</i> (P4)	51 H	295474	6397339
<i>Stenanthemum bremerense</i> (P4)	51 H	295479	6397342
<i>Stenanthemum bremerense</i> (P4)	51 H	295481	6397343

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	295482	6397344
<i>Stenanthemum bremerense</i> (P4)	51 H	295474	6397347
<i>Stenanthemum bremerense</i> (P4)	51 H	295468	6397352
<i>Stenanthemum bremerense</i> (P4)	51 H	295468	6397352
<i>Stenanthemum bremerense</i> (P4)	51 H	295465	6397355
<i>Stenanthemum bremerense</i> (P4)	51 H	295461	6397335
<i>Stenanthemum bremerense</i> (P4)	51 H	295454	6397330
<i>Stenanthemum bremerense</i> (P4)	51 H	295451	6397332
<i>Stenanthemum bremerense</i> (P4)	51 H	295450	6397334
<i>Stenanthemum bremerense</i> (P4)	51 H	295447	6397335
<i>Stenanthemum bremerense</i> (P4)	51 H	295442	6397333
<i>Stenanthemum bremerense</i> (P4)	51 H	295440	6397329
<i>Stenanthemum bremerense</i> (P4)	51 H	295438	6397328
<i>Stenanthemum bremerense</i> (P4)	51 H	295436	6397328
<i>Stenanthemum bremerense</i> (P4)	51 H	295434	6397330
<i>Stenanthemum bremerense</i> (P4)	51 H	295432	6397327
<i>Stenanthemum bremerense</i> (P4)	51 H	295433	6397326
<i>Stenanthemum bremerense</i> (P4)	51 H	295431	6397325
<i>Stenanthemum bremerense</i> (P4)	51 H	295427	6397317
<i>Stenanthemum bremerense</i> (P4)	51 H	295426	6397318
<i>Stenanthemum bremerense</i> (P4)	51 H	295422	6397314
<i>Stenanthemum bremerense</i> (P4)	51 H	295432	6397304
<i>Stenanthemum bremerense</i> (P4)	51 H	295430	6397301
<i>Stenanthemum bremerense</i> (P4)	51 H	295431	6397298
<i>Stenanthemum bremerense</i> (P4)	51 H	295434	6397299
<i>Stenanthemum bremerense</i> (P4)	51 H	295436	6397297
<i>Stenanthemum bremerense</i> (P4)	51 H	295439	6397292
<i>Stenanthemum bremerense</i> (P4)	51 H	295444	6397285
<i>Stenanthemum bremerense</i> (P4)	51 H	295440	6397283
<i>Stenanthemum bremerense</i> (P4)	51 H	295434	6397279
<i>Stenanthemum bremerense</i> (P4)	51 H	295442	6397276
<i>Stenanthemum bremerense</i> (P4)	51 H	295444	6397273
<i>Stenanthemum bremerense</i> (P4)	51 H	295441	6397269
<i>Stenanthemum bremerense</i> (P4)	51 H	295437	6397268
<i>Stenanthemum bremerense</i> (P4)	51 H	295444	6397270
<i>Stenanthemum bremerense</i> (P4)	51 H	295447	6397270
<i>Stenanthemum bremerense</i> (P4)	51 H	295453	6397265
<i>Stenanthemum bremerense</i> (P4)	51 H	295454	6397265
<i>Stenanthemum bremerense</i> (P4)	51 H	295462	6397261
<i>Stenanthemum bremerense</i> (P4)	51 H	295465	6397258
<i>Stenanthemum bremerense</i> (P4)	51 H	295464	6397256
<i>Stenanthemum bremerense</i> (P4)	51 H	295473	6397253
<i>Stenanthemum bremerense</i> (P4)	51 H	295480	6397252
<i>Stenanthemum bremerense</i> (P4)	51 H	295476	6397268
<i>Stenanthemum bremerense</i> (P4)	51 H	295475	6397273
<i>Stenanthemum bremerense</i> (P4)	51 H	295469	6397287
<i>Stenanthemum bremerense</i> (P4)	51 H	295467	6397289
<i>Stenanthemum bremerense</i> (P4)	51 H	295467	6397295

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	295466	6397298
<i>Stenanthemum bremerense</i> (P4)	51 H	295481	6397240
<i>Stenanthemum bremerense</i> (P4)	51 H	292516	6399676
<i>Stenanthemum bremerense</i> (P4)	51 H	292540	6399679
<i>Stenanthemum bremerense</i> (P4)	51 H	292540	6399693
<i>Stenanthemum bremerense</i> (P4)	51 H	292534	6399696
<i>Stenanthemum bremerense</i> (P4)	51 H	292529	6399701
<i>Stenanthemum bremerense</i> (P4)	51 H	292529	6399706
<i>Stenanthemum bremerense</i> (P4)	51 H	292519	6399695
<i>Stenanthemum bremerense</i> (P4)	51 H	292515	6399692
<i>Stenanthemum bremerense</i> (P4)	51 H	292513	6399685
<i>Stenanthemum bremerense</i> (P4)	51 H	292505	6399679
<i>Stenanthemum bremerense</i> (P4)	51 H	292505	6399678
<i>Stenanthemum bremerense</i> (P4)	51 H	292500	6399676
<i>Stenanthemum bremerense</i> (P4)	51 H	292499	6399672
<i>Stenanthemum bremerense</i> (P4)	51 H	292496	6399673
<i>Stenanthemum bremerense</i> (P4)	51 H	292493	6399665
<i>Stenanthemum bremerense</i> (P4)	51 H	292494	6399663
<i>Stenanthemum bremerense</i> (P4)	51 H	292491	6399655
<i>Stenanthemum bremerense</i> (P4)	51 H	292491	6399653
<i>Stenanthemum bremerense</i> (P4)	51 H	292489	6399649
<i>Stenanthemum bremerense</i> (P4)	51 H	292488	6399648
<i>Stenanthemum bremerense</i> (P4)	51 H	292487	6399646
<i>Stenanthemum bremerense</i> (P4)	51 H	292486	6399645
<i>Stenanthemum bremerense</i> (P4)	51 H	292482	6399642
<i>Stenanthemum bremerense</i> (P4)	51 H	292481	6399640
<i>Stenanthemum bremerense</i> (P4)	51 H	292476	6399636
<i>Stenanthemum bremerense</i> (P4)	51 H	292475	6399633
<i>Stenanthemum bremerense</i> (P4)	51 H	292466	6399628
<i>Stenanthemum bremerense</i> (P4)	51 H	292471	6399622
<i>Stenanthemum bremerense</i> (P4)	51 H	292473	6399618
<i>Stenanthemum bremerense</i> (P4)	51 H	292479	6399609
<i>Stenanthemum bremerense</i> (P4)	51 H	292479	6399605
<i>Stenanthemum bremerense</i> (P4)	51 H	292480	6399599
<i>Stenanthemum bremerense</i> (P4)	51 H	292475	6399597
<i>Stenanthemum bremerense</i> (P4)	51 H	292473	6399596
<i>Stenanthemum bremerense</i> (P4)	51 H	292469	6399596
<i>Stenanthemum bremerense</i> (P4)	51 H	292467	6399596
<i>Stenanthemum bremerense</i> (P4)	51 H	292459	6399595
<i>Stenanthemum bremerense</i> (P4)	51 H	292454	6399597
<i>Stenanthemum bremerense</i> (P4)	51 H	292493	6399588
<i>Stenanthemum bremerense</i> (P4)	51 H	292496	6399585
<i>Stenanthemum bremerense</i> (P4)	51 H	292499	6399582
<i>Stenanthemum bremerense</i> (P4)	51 H	292502	6399577
<i>Stenanthemum bremerense</i> (P4)	51 H	292502	6399574
<i>Stenanthemum bremerense</i> (P4)	51 H	292500	6399569
<i>Stenanthemum bremerense</i> (P4)	51 H	292498	6399565
<i>Stenanthemum bremerense</i> (P4)	51 H	292497	6399545

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	292465	6399549
<i>Stenanthemum bremerense</i> (P4)	51 H	292546	6399604
<i>Stenanthemum bremerense</i> (P4)	51 H	291920	6400091
<i>Stenanthemum bremerense</i> (P4)	51 H	291911	6400091
<i>Stenanthemum bremerense</i> (P4)	51 H	291897	6400101
<i>Stenanthemum bremerense</i> (P4)	51 H	291904	6400064
<i>Stenanthemum bremerense</i> (P4)	51 H	291904	6400055
<i>Stenanthemum bremerense</i> (P4)	51 H	291902	6400054
<i>Stenanthemum bremerense</i> (P4)	51 H	291898	6400056
<i>Stenanthemum bremerense</i> (P4)	51 H	291895	6400053
<i>Stenanthemum bremerense</i> (P4)	51 H	291889	6400050
<i>Stenanthemum bremerense</i> (P4)	51 H	291891	6399990
<i>Stenanthemum bremerense</i> (P4)	51 H	291924	6399990
<i>Stenanthemum bremerense</i> (P4)	51 H	291930	6399985
<i>Stenanthemum bremerense</i> (P4)	51 H	291930	6399983
<i>Stenanthemum bremerense</i> (P4)	51 H	291929	6399979
<i>Stenanthemum bremerense</i> (P4)	51 H	291928	6399976
<i>Stenanthemum bremerense</i> (P4)	51 H	291924	6399975
<i>Stenanthemum bremerense</i> (P4)	51 H	291917	6399971
<i>Stenanthemum bremerense</i> (P4)	51 H	291909	6399972
<i>Stenanthemum bremerense</i> (P4)	51 H	291906	6399968
<i>Stenanthemum bremerense</i> (P4)	51 H	291903	6399970
<i>Stenanthemum bremerense</i> (P4)	51 H	291901	6399974
<i>Stenanthemum bremerense</i> (P4)	51 H	291900	6399977
<i>Stenanthemum bremerense</i> (P4)	51 H	291893	6399981
<i>Stenanthemum bremerense</i> (P4)	51 H	291886	6399981
<i>Stenanthemum bremerense</i> (P4)	51 H	291884	6399988
<i>Stenanthemum bremerense</i> (P4)	51 H	291937	6399874
<i>Stenanthemum bremerense</i> (P4)	51 H	291976	6399884
<i>Stenanthemum bremerense</i> (P4)	51 H	291980	6399884
<i>Stenanthemum bremerense</i> (P4)	51 H	291981	6399877
<i>Stenanthemum bremerense</i> (P4)	51 H	291989	6399874
<i>Stenanthemum bremerense</i> (P4)	51 H	291992	6399864
<i>Stenanthemum bremerense</i> (P4)	51 H	291989	6399859
<i>Stenanthemum bremerense</i> (P4)	51 H	291985	6399856
<i>Stenanthemum bremerense</i> (P4)	51 H	291976	6399853
<i>Stenanthemum bremerense</i> (P4)	51 H	291970	6399854
<i>Stenanthemum bremerense</i> (P4)	51 H	291965	6399852
<i>Stenanthemum bremerense</i> (P4)	51 H	291961	6399849
<i>Stenanthemum bremerense</i> (P4)	51 H	291958	6399848
<i>Stenanthemum bremerense</i> (P4)	51 H	291953	6399846
<i>Stenanthemum bremerense</i> (P4)	51 H	291950	6399845
<i>Stenanthemum bremerense</i> (P4)	51 H	291941	6399843
<i>Stenanthemum bremerense</i> (P4)	51 H	291908	6399819
<i>Stenanthemum bremerense</i> (P4)	51 H	291911	6399815
<i>Stenanthemum bremerense</i> (P4)	51 H	291923	6399804
<i>Stenanthemum bremerense</i> (P4)	51 H	291924	6399803
<i>Stenanthemum bremerense</i> (P4)	51 H	291925	6399795

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	291954	6399786
<i>Stenanthemum bremerense</i> (P4)	51 H	291971	6399750
<i>Stenanthemum bremerense</i> (P4)	51 H	291973	6399747
<i>Stenanthemum bremerense</i> (P4)	51 H	291972	6399745
<i>Stenanthemum bremerense</i> (P4)	51 H	291969	6399740
<i>Stenanthemum bremerense</i> (P4)	51 H	291968	6399736
<i>Stenanthemum bremerense</i> (P4)	51 H	291964	6399734
<i>Stenanthemum bremerense</i> (P4)	51 H	291963	6399732
<i>Stenanthemum bremerense</i> (P4)	51 H	291959	6399732
<i>Stenanthemum bremerense</i> (P4)	51 H	291972	6399726
<i>Stenanthemum bremerense</i> (P4)	51 H	291972	6399722
<i>Stenanthemum bremerense</i> (P4)	51 H	291972	6399719
<i>Stenanthemum bremerense</i> (P4)	51 H	291972	6399717
<i>Stenanthemum bremerense</i> (P4)	51 H	291973	6399713
<i>Stenanthemum bremerense</i> (P4)	51 H	291976	6399710
<i>Stenanthemum bremerense</i> (P4)	51 H	291975	6399706
<i>Stenanthemum bremerense</i> (P4)	51 H	291974	6399701
<i>Stenanthemum bremerense</i> (P4)	51 H	291977	6399696
<i>Stenanthemum bremerense</i> (P4)	51 H	291979	6399691
<i>Stenanthemum bremerense</i> (P4)	51 H	291983	6399689
<i>Stenanthemum bremerense</i> (P4)	51 H	291982	6399684
<i>Stenanthemum bremerense</i> (P4)	51 H	291995	6399715
<i>Stenanthemum bremerense</i> (P4)	51 H	291997	6399717
<i>Stenanthemum bremerense</i> (P4)	51 H	292002	6399722
<i>Stenanthemum bremerense</i> (P4)	51 H	292003	6399726
<i>Stenanthemum bremerense</i> (P4)	51 H	291959	6399783
<i>Stenanthemum bremerense</i> (P4)	51 H	291962	6399781
<i>Stenanthemum bremerense</i> (P4)	51 H	291965	6399779
<i>Stenanthemum bremerense</i> (P4)	51 H	291972	6399780
<i>Stenanthemum bremerense</i> (P4)	51 H	291974	6399779
<i>Stenanthemum bremerense</i> (P4)	51 H	291984	6399776
<i>Stenanthemum bremerense</i> (P4)	51 H	291986	6399777
<i>Stenanthemum bremerense</i> (P4)	51 H	291994	6399780
<i>Stenanthemum bremerense</i> (P4)	51 H	292007	6399787
<i>Stenanthemum bremerense</i> (P4)	51 H	292012	6399788
<i>Stenanthemum bremerense</i> (P4)	51 H	292022	6399789
<i>Stenanthemum bremerense</i> (P4)	51 H	292035	6399800
<i>Stenanthemum bremerense</i> (P4)	51 H	292038	6399801
<i>Stenanthemum bremerense</i> (P4)	51 H	292044	6399807
<i>Stenanthemum bremerense</i> (P4)	51 H	292051	6399817
<i>Stenanthemum bremerense</i> (P4)	51 H	292048	6399833
<i>Stenanthemum bremerense</i> (P4)	51 H	292050	6399862
<i>Stenanthemum bremerense</i> (P4)	51 H	292049	6399868
<i>Stenanthemum bremerense</i> (P4)	51 H	292047	6399870
<i>Stenanthemum bremerense</i> (P4)	51 H	292050	6399875
<i>Stenanthemum bremerense</i> (P4)	51 H	292037	6399904
<i>Stenanthemum bremerense</i> (P4)	51 H	292039	6399906
<i>Stenanthemum bremerense</i> (P4)	51 H	292049	6399911

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	292061	6399925
<i>Stenanthemum bremerense</i> (P4)	51 H	292066	6399931
<i>Stenanthemum bremerense</i> (P4)	51 H	292064	6399943
<i>Stenanthemum bremerense</i> (P4)	51 H	292068	6399948
<i>Stenanthemum bremerense</i> (P4)	51 H	292071	6399955
<i>Stenanthemum bremerense</i> (P4)	51 H	292070	6399959
<i>Stenanthemum bremerense</i> (P4)	51 H	292070	6399972
<i>Stenanthemum bremerense</i> (P4)	51 H	291943	6399544
<i>Stenanthemum bremerense</i> (P4)	51 H	291898	6399505
<i>Stenanthemum bremerense</i> (P4)	51 H	291893	6399504
<i>Stenanthemum bremerense</i> (P4)	51 H	291864	6399489
<i>Stenanthemum bremerense</i> (P4)	51 H	291864	6399490
<i>Stenanthemum bremerense</i> (P4)	51 H	291865	6399490
<i>Stenanthemum bremerense</i> (P4)	51 H	291865	6399492
<i>Stenanthemum bremerense</i> (P4)	51 H	291864	6399493
<i>Stenanthemum bremerense</i> (P4)	51 H	291861	6399493
<i>Stenanthemum bremerense</i> (P4)	51 H	291859	6399493
<i>Stenanthemum bremerense</i> (P4)	51 H	291859	6399488
<i>Stenanthemum bremerense</i> (P4)	51 H	291857	6399488
<i>Stenanthemum bremerense</i> (P4)	51 H	291856	6399488
<i>Stenanthemum bremerense</i> (P4)	51 H	291855	6399486
<i>Stenanthemum bremerense</i> (P4)	51 H	291853	6399487
<i>Stenanthemum bremerense</i> (P4)	51 H	291852	6399483
<i>Stenanthemum bremerense</i> (P4)	51 H	291851	6399478
<i>Stenanthemum bremerense</i> (P4)	51 H	291849	6399467
<i>Stenanthemum bremerense</i> (P4)	51 H	291847	6399466
<i>Stenanthemum bremerense</i> (P4)	51 H	291845	6399467
<i>Stenanthemum bremerense</i> (P4)	51 H	291843	6399469
<i>Stenanthemum bremerense</i> (P4)	51 H	291841	6399470
<i>Stenanthemum bremerense</i> (P4)	51 H	291838	6399462
<i>Stenanthemum bremerense</i> (P4)	51 H	291837	6399461
<i>Stenanthemum bremerense</i> (P4)	51 H	291834	6399461
<i>Stenanthemum bremerense</i> (P4)	51 H	291831	6399462
<i>Stenanthemum bremerense</i> (P4)	51 H	291827	6399460
<i>Stenanthemum bremerense</i> (P4)	51 H	291827	6399456
<i>Stenanthemum bremerense</i> (P4)	51 H	291826	6399456
<i>Stenanthemum bremerense</i> (P4)	51 H	291824	6399456
<i>Stenanthemum bremerense</i> (P4)	51 H	291818	6399453
<i>Stenanthemum bremerense</i> (P4)	51 H	291816	6399449
<i>Stenanthemum bremerense</i> (P4)	51 H	291815	6399444
<i>Stenanthemum bremerense</i> (P4)	51 H	291813	6399443
<i>Stenanthemum bremerense</i> (P4)	51 H	291811	6399444
<i>Stenanthemum bremerense</i> (P4)	51 H	291809	6399444
<i>Stenanthemum bremerense</i> (P4)	51 H	291808	6399444
<i>Stenanthemum bremerense</i> (P4)	51 H	291805	6399445
<i>Stenanthemum bremerense</i> (P4)	51 H	291803	6399443
<i>Stenanthemum bremerense</i> (P4)	51 H	291801	6399442
<i>Stenanthemum bremerense</i> (P4)	51 H	291799	6399442

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	291795	6399443
<i>Stenanthemum bremerense</i> (P4)	51 H	291795	6399445
<i>Stenanthemum bremerense</i> (P4)	51 H	291790	6399444
<i>Stenanthemum bremerense</i> (P4)	51 H	291787	6399440
<i>Stenanthemum bremerense</i> (P4)	51 H	291785	6399440
<i>Stenanthemum bremerense</i> (P4)	51 H	291786	6399430
<i>Stenanthemum bremerense</i> (P4)	51 H	291786	6399423
<i>Stenanthemum bremerense</i> (P4)	51 H	291794	6399421
<i>Stenanthemum bremerense</i> (P4)	51 H	291795	6399418
<i>Stenanthemum bremerense</i> (P4)	51 H	291827	6399441
<i>Stenanthemum bremerense</i> (P4)	51 H	291829	6399442
<i>Stenanthemum bremerense</i> (P4)	51 H	291833	6399444
<i>Stenanthemum bremerense</i> (P4)	51 H	291837	6399444
<i>Stenanthemum bremerense</i> (P4)	51 H	291845	6399443
<i>Stenanthemum bremerense</i> (P4)	51 H	291854	6399447
<i>Stenanthemum bremerense</i> (P4)	51 H	291874	6399454
<i>Stenanthemum bremerense</i> (P4)	51 H	293462	6398545
<i>Stenanthemum bremerense</i> (P4)	51 H	291636	6400292
<i>Stenanthemum bremerense</i> (P4)	51 H	291629	6400284
<i>Stenanthemum bremerense</i> (P4)	51 H	291623	6400278
<i>Stenanthemum bremerense</i> (P4)	51 H	291620	6400274
<i>Stenanthemum bremerense</i> (P4)	51 H	291593	6400269
<i>Stenanthemum bremerense</i> (P4)	51 H	291588	6400267
<i>Stenanthemum bremerense</i> (P4)	51 H	291586	6400268
<i>Stenanthemum bremerense</i> (P4)	51 H	291579	6400257
<i>Stenanthemum bremerense</i> (P4)	51 H	291585	6400255
<i>Stenanthemum bremerense</i> (P4)	51 H	291585	6400248
<i>Stenanthemum bremerense</i> (P4)	51 H	291586	6400245
<i>Stenanthemum bremerense</i> (P4)	51 H	291584	6400239
<i>Stenanthemum bremerense</i> (P4)	51 H	291585	6400238
<i>Stenanthemum bremerense</i> (P4)	51 H	291589	6400236
<i>Stenanthemum bremerense</i> (P4)	51 H	291590	6400235
<i>Stenanthemum bremerense</i> (P4)	51 H	291592	6400231
<i>Stenanthemum bremerense</i> (P4)	51 H	291595	6400230
<i>Stenanthemum bremerense</i> (P4)	51 H	291599	6400226
<i>Stenanthemum bremerense</i> (P4)	51 H	291602	6400223
<i>Stenanthemum bremerense</i> (P4)	51 H	291603	6400219
<i>Stenanthemum bremerense</i> (P4)	51 H	291557	6400270
<i>Stenanthemum bremerense</i> (P4)	51 H	291539	6400292
<i>Stenanthemum bremerense</i> (P4)	51 H	291532	6400294
<i>Stenanthemum bremerense</i> (P4)	51 H	291531	6400294
<i>Stenanthemum bremerense</i> (P4)	51 H	291525	6400289
<i>Stenanthemum bremerense</i> (P4)	51 H	291522	6400291
<i>Stenanthemum bremerense</i> (P4)	51 H	291519	6400289
<i>Stenanthemum bremerense</i> (P4)	51 H	291514	6400289
<i>Stenanthemum bremerense</i> (P4)	51 H	291513	6400308
<i>Stenanthemum bremerense</i> (P4)	51 H	291516	6400314
<i>Stenanthemum bremerense</i> (P4)	51 H	291524	6400321

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	291542	6400317
<i>Stenanthemum bremerense</i> (P4)	51 H	291545	6400318
<i>Stenanthemum bremerense</i> (P4)	51 H	291551	6400320
<i>Stenanthemum bremerense</i> (P4)	51 H	291557	6400317
<i>Stenanthemum bremerense</i> (P4)	51 H	291558	6400318
<i>Stenanthemum bremerense</i> (P4)	51 H	291560	6400322
<i>Stenanthemum bremerense</i> (P4)	51 H	291559	6400325
<i>Stenanthemum bremerense</i> (P4)	51 H	291562	6400330
<i>Stenanthemum bremerense</i> (P4)	51 H	291563	6400333
<i>Stenanthemum bremerense</i> (P4)	51 H	291566	6400338
<i>Stenanthemum bremerense</i> (P4)	51 H	291600	6400335
<i>Stenanthemum bremerense</i> (P4)	51 H	291518	6400601
<i>Stenanthemum bremerense</i> (P4)	51 H	291512	6400600
<i>Stenanthemum bremerense</i> (P4)	51 H	291498	6400589
<i>Stenanthemum bremerense</i> (P4)	51 H	291490	6400578
<i>Stenanthemum bremerense</i> (P4)	51 H	291478	6400579
<i>Stenanthemum bremerense</i> (P4)	51 H	291477	6400625
<i>Stenanthemum bremerense</i> (P4)	51 H	291951	6400408
<i>Stenanthemum bremerense</i> (P4)	51 H	291959	6400404
<i>Stenanthemum bremerense</i> (P4)	51 H	291965	6400403
<i>Stenanthemum bremerense</i> (P4)	51 H	291974	6400426
<i>Stenanthemum bremerense</i> (P4)	51 H	291982	6400429
<i>Stenanthemum bremerense</i> (P4)	51 H	291985	6400436
<i>Stenanthemum bremerense</i> (P4)	51 H	291987	6400446
<i>Stenanthemum bremerense</i> (P4)	51 H	291985	6400455
<i>Stenanthemum bremerense</i> (P4)	51 H	291966	6400475
<i>Stenanthemum bremerense</i> (P4)	51 H	291918	6400483
<i>Stenanthemum bremerense</i> (P4)	51 H	291919	6400485
<i>Stenanthemum bremerense</i> (P4)	51 H	291904	6400502
<i>Stenanthemum bremerense</i> (P4)	51 H	293213	6400157
<i>Stenanthemum bremerense</i> (P4)	51 H	293219	6400166
<i>Stenanthemum bremerense</i> (P4)	51 H	293219	6400172
<i>Stenanthemum bremerense</i> (P4)	51 H	293214	6400200
<i>Stenanthemum bremerense</i> (P4)	51 H	293224	6400215
<i>Stenanthemum bremerense</i> (P4)	51 H	293233	6400225
<i>Stenanthemum bremerense</i> (P4)	51 H	293250	6400225
<i>Stenanthemum bremerense</i> (P4)	51 H	293259	6400229
<i>Stenanthemum bremerense</i> (P4)	51 H	293262	6400228
<i>Stenanthemum bremerense</i> (P4)	51 H	293268	6400227
<i>Stenanthemum bremerense</i> (P4)	51 H	293283	6400222
<i>Stenanthemum bremerense</i> (P4)	51 H	293289	6400218
<i>Stenanthemum bremerense</i> (P4)	51 H	293290	6400216
<i>Stenanthemum bremerense</i> (P4)	51 H	293296	6400210
<i>Stenanthemum bremerense</i> (P4)	51 H	293298	6400207
<i>Stenanthemum bremerense</i> (P4)	51 H	293314	6400220
<i>Stenanthemum bremerense</i> (P4)	51 H	293318	6400221
<i>Stenanthemum bremerense</i> (P4)	51 H	293338	6400244
<i>Stenanthemum bremerense</i> (P4)	51 H	293339	6400249

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	293345	6400255
<i>Stenanthemum bremerense</i> (P4)	51 H	293347	6400254
<i>Stenanthemum bremerense</i> (P4)	51 H	293351	6400253
<i>Stenanthemum bremerense</i> (P4)	51 H	293358	6400255
<i>Stenanthemum bremerense</i> (P4)	51 H	293360	6400255
<i>Stenanthemum bremerense</i> (P4)	51 H	293365	6400258
<i>Stenanthemum bremerense</i> (P4)	51 H	293366	6400267
<i>Stenanthemum bremerense</i> (P4)	51 H	293375	6400273
<i>Stenanthemum bremerense</i> (P4)	51 H	293385	6400270
<i>Stenanthemum bremerense</i> (P4)	51 H	293389	6400269
<i>Stenanthemum bremerense</i> (P4)	51 H	293397	6400281
<i>Stenanthemum bremerense</i> (P4)	51 H	293398	6400286
<i>Stenanthemum bremerense</i> (P4)	51 H	293404	6400285
<i>Stenanthemum bremerense</i> (P4)	51 H	293411	6400290
<i>Stenanthemum bremerense</i> (P4)	51 H	293412	6400291
<i>Stenanthemum bremerense</i> (P4)	51 H	293414	6400321
<i>Stenanthemum bremerense</i> (P4)	51 H	293420	6400327
<i>Stenanthemum bremerense</i> (P4)	51 H	293404	6400355
<i>Stenanthemum bremerense</i> (P4)	51 H	293407	6400357
<i>Stenanthemum bremerense</i> (P4)	51 H	293410	6400357
<i>Stenanthemum bremerense</i> (P4)	51 H	293418	6400364
<i>Stenanthemum bremerense</i> (P4)	51 H	293422	6400382
<i>Stenanthemum bremerense</i> (P4)	51 H	293409	6400402
<i>Stenanthemum bremerense</i> (P4)	51 H	293351	6400433
<i>Stenanthemum bremerense</i> (P4)	51 H	293287	6400406
<i>Stenanthemum bremerense</i> (P4)	51 H	293287	6400408
<i>Stenanthemum bremerense</i> (P4)	51 H	293282	6400415
<i>Stenanthemum bremerense</i> (P4)	51 H	293262	6400413
<i>Stenanthemum bremerense</i> (P4)	51 H	293179	6400250
<i>Stenanthemum bremerense</i> (P4)	51 H	292665	6398532
<i>Stenanthemum bremerense</i> (P4)	51 H	291545	6401955
<i>Stenanthemum bremerense</i> (P4)	51 H	291561	6401988
<i>Stenanthemum bremerense</i> (P4)	51 H	291270	6402338
<i>Stenanthemum bremerense</i> (P4)	51 H	291386	6401968
<i>Stenanthemum bremerense</i> (P4)	51 H	294318	6398105
<i>Stenanthemum bremerense</i> (P4)	51 H	294308	6398092
<i>Stenanthemum bremerense</i> (P4)	51 H	294295	6398102
<i>Stenanthemum bremerense</i> (P4)	51 H	294284	6398105
<i>Stenanthemum bremerense</i> (P4)	51 H	294228	6398122
<i>Stenanthemum bremerense</i> (P4)	51 H	294206	6398131
<i>Stenanthemum bremerense</i> (P4)	51 H	294199	6398133
<i>Stenanthemum bremerense</i> (P4)	51 H	294156	6398147
<i>Stenanthemum bremerense</i> (P4)	51 H	294117	6398152
<i>Stenanthemum bremerense</i> (P4)	51 H	294098	6398160
<i>Stenanthemum bremerense</i> (P4)	51 H	294074	6398174
<i>Stenanthemum bremerense</i> (P4)	51 H	293832	6398339
<i>Stenanthemum bremerense</i> (P4)	51 H	293765	6398337
<i>Stenanthemum bremerense</i> (P4)	51 H	293733	6398359

Taxon	Zone	Easting	Northing
<i>Stenanthemum bremerense</i> (P4)	51 H	293716	6398382
<i>Stenanthemum bremerense</i> (P4)	51 H	293698	6398398
<i>Stenanthemum bremerense</i> (P4)	51 H	293684	6398423
<i>Stenanthemum bremerense</i> (P4)	51 H	293646	6398450
<i>Stenanthemum bremerense</i> (P4)	51 H	296288	6397331
<i>Teucrium diabolicum</i> (P3)	51 H	292830	6397963
<i>Teucrium diabolicum</i> (P3)	51 H	292838	6397951
<i>Teucrium diabolicum</i> (P3)	51 H	292842	6397991
<i>Teucrium diabolicum</i> (P3)	51 H	292879	6397940
<i>Teucrium diabolicum</i> (P3)	51 H	292908	6397946
<i>Teucrium diabolicum</i> (P3)	51 H	292936	6397945
<i>Teucrium diabolicum</i> (P3)	51 H	292830	6397963
<i>Teucrium diabolicum</i> (P3)	51 H	292838	6397951
<i>Teucrium diabolicum</i> (P3)	51 H	292842	6397991
<i>Teucrium diabolicum</i> (P3)	51 H	292879	6397940
<i>Teucrium diabolicum</i> (P3)	51 H	292908	6397946
<i>Teucrium diabolicum</i> (P3)	51 H	292936	6397945
<i>Teucrium diabolicum</i> (P3)	51 H	292372	6397248
<i>Teucrium diabolicum</i> (P3)	51 H	292635	6397323
<i>Teucrium diabolicum</i> (P3)	51 H	292693	6397243
<i>Teucrium diabolicum</i> (P3)	51 H	291464	6397113
<i>Teucrium diabolicum</i> (P3)	51 H	292047	6397098
<i>Teucrium diabolicum</i> (P3)	51 H	291159	6397733
<i>Teucrium diabolicum</i> (P3)	51 H	295833	6398354
<i>Teucrium diabolicum</i> (P3)	51 H	295859	6398258
<i>Teucrium diabolicum</i> (P3)	51 H	295884	6398258
<i>Teucrium diabolicum</i> (P3)	51 H	295893	6398268
<i>Teucrium diabolicum</i> (P3)	51 H	295921	6398272
<i>Teucrium diabolicum</i> (P3)	51 H	296059	6398125
<i>Teucrium diabolicum</i> (P3)	51 H	296516	6398352
<i>Teucrium diabolicum</i> (P3)	51 H	294968	6402589
<i>Teucrium diabolicum</i> (P3)	51 H	290171	6401368
<i>Teucrium diabolicum</i> (P3)	51 H	289507	6398231
<i>Teucrium diabolicum</i> (P3)	51 H	291988	6398322
<i>Teucrium diabolicum</i> (P3)	51 H	291973	6398351
<i>Teucrium diabolicum</i> (P3)	51 H	292939	6397942
<i>Teucrium diabolicum</i> (P3)	51 H	291548	6401438
<i>Teucrium diabolicum</i> (P3)	51 H	292499	6399067
<i>Teucrium diabolicum</i> (P3)	51 H	292839	6397944
<i>Teucrium diabolicum</i> (P3)	51 H	292898	6397957
<i>Teucrium diabolicum</i> (P3)	51 H	293477	6397402
<i>Teucrium diabolicum</i> (P3)	51 H	295523	6399697
<i>Teucrium diabolicum</i> (P3)	51 H	295593	6399755
<i>Teucrium diabolicum</i> (P3)	51 H	296511	6398351

Appendix 10: Regional map of the survey area including DBCA Flora of Conservation Significance and areas of Conservation Significance

