

WODGINA LITHIUM PROJECT:

Detailed Flora and Vegetation Assessment

MARBL LITHIUM OPERATIONS PTY LTD

APRIL 2020



WOODMAN
ENVIRONMENTAL

TEL. (08) 9315 4688
office@woodmanenv.com.au
PO Box 50, Applecross WA 6953
www.woodmanenv.com.au

Changes to Wodgina Minesite Operations - Detailed Flora and Vegetation Assessment

Prepared for: MARBL Lithium Operations Pty Ltd
 Job Number: MRL19-19
 Report Number: MRL19-19-04
 Cover Photograph: Quadrat WDM018 (Woodman Environmental 2019)

DOCUMENT REVISION AND STATUS

Revision	Status	Originator	Internal Reviewer	Internal Review Date	Client Reviewer	Client Review Date
A	Draft Report	LF/MS/DC	CG/DC	19/11/2019	DTS	16/3/2020
0	Final Report	LF/MS/DC	CG/DC/AS	3/4/2020		

DISCLAIMER

This document is prepared in accordance with and subject to an agreement between Woodman Environmental Consulting Pty Ltd (“Woodman Environmental”) and the client for whom it has been prepared (“Mineral Resources Limited”) and is restricted to those issues that have been raised by the Client in its engagement of Woodman Environmental and prepared using the standard of skill and care ordinarily exercised by Environmental Scientists in the preparation of such Documents.

Any organisation or person that relies on or uses this document for purposes or reasons other than those agreed by Woodman Environmental and the Client without first obtaining the prior written consent of Woodman Environmental, does so entirely at their own risk and Woodman Environmental denies all liability in tort, contract or otherwise for any loss, damage or injury of any kind whatsoever (whether in negligence or otherwise) that may be suffered as a consequence of relying on this document for any purpose other than that agreed with the Client.

TABLE OF CONTENTS

EXECUTIVE SUMMARY	i
1. INTRODUCTION	1
1.1 PROJECT OVERVIEW.....	1
1.2 STUDY AREA DEFINITION.....	1
1.3 AIM AND OBJECTIVES.....	3
1.4 LEVEL OF ASSESSMENT	4
2. BACKGROUND	5
2.1 CLIMATE.....	5
2.2 GEOLOGY, LANDFORMS AND SOILS.....	6
2.3 LAND TENURE	7
3. METHODS	9
3.1 DESKTOP STUDY METHODS.....	9
3.2 PERSONNEL AND LICENSING	9
3.3 AERIAL PHOTOGRAPHY INTERPRETATION AND SURVEY DESIGN	10
3.4 FIELD SURVEY METHODS.....	11
3.4.1 Survey Timing.....	11
3.4.2 Detailed Flora and Vegetation Surveys Methods	12
3.4.3 Targeted Surveys for Significant Flora	15
3.5 PLANT COLLECTION AND IDENTIFICATION	18
3.6 FLORISTIC ANALYSIS	18
3.7 VEGETATION UNIT DEFINITION, MAPPING AND DESCRIPTION	19
3.8 VEGETATION CONDITION MAPPING.....	20
3.9 SIGNIFICANT FLORA AND VEGETATION	20
3.9.1 Significant Flora.....	20
3.9.2 Significant Vegetation	21
4. ADEQUACY AND LIMITATIONS OF SURVEY	22
4.1 ADEQUACY OF SURVEY	22
4.2 LIMITATIONS OF SURVEY	23
5. RESULTS	26
5.1 DESKTOP STUDY	26
5.1.1 Regional Vegetation	26
5.1.2 Regional Flora	30
5.1.3 Local Flora and Vegetation Surveys	31
5.1.4 Summary of Significant Flora	37
5.1.5 Summary of Introduced Flora.....	40
5.1.6 Summary of Significant Vegetation	40
5.2 FIELD SURVEY.....	41
5.2.1 Flora.....	41
5.2.1.1 Vascular Flora Census.....	41



5.2.1.2	Significant Flora Taxa.....	42
5.2.1.3	Listed Significant Flora Taxa.....	45
5.2.1.4	Unlisted Significant Flora Taxa.....	50
5.2.1.5	Other Flora Taxa of Interest.....	51
5.2.1.6	Distribution Extensions and Distribution Gaps.....	52
5.2.1.7	Likelihood of Occurrence of Further Significant Flora Taxa	52
5.2.1.8	Introduced Taxa	54
5.2.2	Vegetation	56
5.2.2.1	Floristic Classification Results	56
5.2.2.2	Vegetation Units	56
5.2.2.3	Other Areas Described	76
5.2.2.4	Significant Vegetation	76
5.2.2.5	Wetlands, Groundwater and Surface Water Dependent Vegetation.....	76
5.2.2.6	Vegetation Condition	78
6.	DISCUSSION	81
7.	REFERENCES.....	83



FIGURES

Figure 1: Study Area and Desktop Study Area Location	2
Figure 2: Temperature and Precipitation for Marble Bar (Bureau of Meteorology 2019b) ...	6
Figure 3: Land Tenure	8
Figure 4: Track Logs and Quadrats	14
Figure 5: Study Area Quadrat Data Species Accumulation Curve.....	23
Figure 6: Vegetation System Associations of the Study Area	27
Figure 7: Land Systems of the Study Area	29
Figure 8: Flora and Vegetation Surveys Previously Conducted within the Study Area.....	36
Figure 9: Desktop Study Area Significant Flora Records.....	39
Figure 10: Overview of Significant Flora Locations in the Study Area	44
Figure 11: Overview of Introduced Flora Locations in the Study Area	55
Figure 12: Overview of Vegetation Units of the Study Area.....	58
Figure 13: Overview of Vegetation Condition of the Study Area	80

TABLES

Table 1: Searches Undertaken for the Desktop Study	9
Table 2: Personnel and Licensing Information	10
Table 3: Limitations of the Flora and Vegetation Survey of the Study Area	24
Table 4: Summary of Flora and Vegetation Surveys Previously Conducted in the Vicinity of the Study Area	32
Table 5: Significant Flora Taxa Known from the Study Area and Surrounds.....	37
Table 6: Introduced Flora Taxa Known from the Study Area and Surrounds.....	40
Table 7: Summary of Significant Flora Taxa Recorded within the Study Area	43
Table 8: Taxa Where Collections Represent Range Extensions to the Known Ranges of these Taxa or Fill Distribution Gaps (DBCA 2007-)	52
Table 9: Likelihood of Occurrence of Significant Flora Taxa in the Study Area	53
Table 10: Summary of Introduced Taxa Recorded within the Study Area	54
Table 11: Summary of Vegetation Units Described in the Study Area	60
Table 12: Vegetation Condition Types Mapped in the Study Area.....	79

PLATES

Plate 1: <i>Terminalia supranitifolia</i> (P3) showing distinctive, glossy green foliage (photo: Woodman Environmental)	16
Plate 2: Distance view of <i>Terminalia supranitifolia</i> (P3) (photo: Woodman Environmental)	17
Plate 3: <i>Euphorbia clementii</i> (P3) (Woodman Environmental 2018).....	46
Plate 4: <i>Heliotropium muticum</i> (P3) (Photos: Woodman Environmental 2018).....	47
Plate 5: <i>Terminalia supranitifolia</i> (P3) (Photos: Woodman Environmental 2012).....	48
Plate 6: <i>Triodia chichesterensis</i> (P3) (Photos: Woodman Environmental 2018).....	49
Plate 7: <i>Vigna triodiophila</i> (P3) habit and typical position in landscape (Photos: Woodman Environmental 2019).....	50
Plate 8: <i>Abutilon</i> aff. <i>hunii</i> (Woodman Environmental).....	51
Plate 9: VU 1 (Quadrat TRH067)	60
Plate 10: VU 1 (Quadrat WD69)	60
Plate 11: VU 2 (Quadrat HER001)	61

Plate 12: VU 2 (Quadrat WD32)	61
Plate 13: VU 3 (Quadrat WDD07)	62
Plate 14: VU 4 (Quadrat WD17)	63
Plate 15: VU 5 (Quadrat WD86)	64
Plate 16: VU 5 Quadrat (WD35)	64
Plate 17: VU 6 (Quadrat HER015)	65
Plate 18: VU 7 (Quadrat WD52)	66
Plate 19: VU 8 (Quadrat WD48)	67
Plate 20: VU 9 (Quadrat WDM10)	68
Plate 21: VU 9 (Quadrat HER016)	68
Plate 22: VU 10 (Quadrat WDD14)	69
Plate 23: VU 10 (Quadrat WDD13)	69
Plate 24: VU 11 (Quadrat WDK16)	70
Plate 25: VU 11 (Quadrat WD74)	70
Plate 26: VU 12 (Quadrat WD78)	71
Plate 27: VU 13 (Quadrat WD85)	72
Plate 28: VU 14 (Quadrat WDM25)	73
Plate 29: VU 14 (Quadrat HER037)	73
Plate 30: VU 15 (Quadrat WD01)	75

APPENDICES

- Appendix A: Conservation Codes for Western Australian Flora and Fauna (DBCA 2019b)
- Appendix B: Definitions, Categories and Criteria for Threatened and Priority Ecological Communities (DBCA 2013a)
- Appendix C: Vegetation Condition Scale for the Eremaean and Northern Botanical Provinces
- Appendix D: Results of Search of the Department of the Environment and Energy Species Profile and Threats (SPRAT) Database (DoEE 2019)
- Appendix E: Vascular Plant Taxa Amalgamated in or Omitted from the Floristic Analysis
- Appendix F: Vascular Plant Taxa Recorded in the Study Area
- Appendix G: Location Details of Significant Flora and Introduced Flora Recorded within the Study Area in 2018/2019
- Appendix H: Significant Flora Locations (Figures H1 – H4)
- Appendix I: Classification Analysis Dendrogram of Quadrats Established in the Study Area
- Appendix J: Results of Indicator Species Analysis of Quadrat Data from the Study Area
- Appendix K: Raw Quadrat Data Recorded within the Study Area
- Appendix L: Matrix of Vascular Plant Taxa Recorded within Each Vegetation Unit Described in the Study Area
- Appendix M: Detailed Vegetation Mapping of the Study Area (Figures M1 – M5)
- Appendix N: Detailed Vegetation Condition and Introduced Flora of the Study Area (Figures N1 – N4)

EXECUTIVE SUMMARY

The MARBL Lithium Joint Venture (MARBL JV) owns and operates the Wodgina mine, located 90 km south of Port Hedland in the Pilbara region of Western Australia.

The Wodgina mining area has been the location for a number of mining projects in the preceding decades, and therefore several flora and vegetation assessments of differing scopes have been undertaken across portions of the project area to support environmental approvals for these projects.

Woodman Environmental Consulting Pty Ltd (Woodman Environmental) were commissioned to review the findings of previous flora and vegetation assessments conducted in the Wodgina mining area, conduct a flora and vegetation assessment of unsurveyed areas potentially relevant to the Project, and produce a consolidated detailed flora and vegetation assessment that builds upon the results of previous assessments by incorporating new data.

Ortho-rectified aerial photography was interpreted to determine preliminary vegetation patterns present within the Study Area, with survey quadrats allocated based on these patterns. A minimum of three quadrats were allocated to each major discernible vegetation pattern where possible. Since 2011, there has been considerable survey effort within the Study Area with regard to vegetation quadrat sampling. Quadrat allocation for the June 2019 survey generally did not consider areas that had previously been surveyed using quadrats however, the data from these quadrats were utilised for floristic analysis and for building a taxon inventory for the Study Area.

All field surveys were undertaken during the post-wet season during 2018 and 2019, as outlined below:

- 26th June – 3rd July 2018 – detailed flora and vegetation survey – quadrats and opportunistic significant flora searching;
- 3rd – 9th April 2019 – targeted significant flora survey; and
- 17th – 25th June 2019 detailed flora and vegetation survey and targeted significant flora survey – quadrats and targeted significant flora searching.

A total of 170 non-permanent flora survey quadrats were established and surveyed within the Study Area during the 2018/2019 field surveys: 94 quadrats were established in 2018 and 76 quadrats were established in 2019. A further 13 quadrats previously established in the Study Area were re-visited in June 2019 to clarify identification issues associated with very recent fire during the previous survey. Data from a further 79 quadrats previously established in the Study Area were utilised for the purposes of floristic analysis.

Targeted survey for significant flora occurred at numerous locations within the Study Area, including those that may host future infrastructure. All suitable habitat for all significant taxa known to occur or potentially occurring within the Study Area within these areas (with

the exception of *Terminalia supranitifolia* (P3)) was surveyed regardless of previous searching efforts.

Terminalia supranitifolia (P3) is a large, distinctive species recorded by previous surveys within the Study Area, and significant survey effort has been invested in recording individuals of this taxon across its rocky hill habitat. Therefore, suitable habitat for *Terminalia supranitifolia* (P3) within the 2019 Targeted Significant Flora Survey Areas that had been previously surveyed (primarily the Hercules area) was not re-surveyed. However, all remaining suitable habitat not previously surveyed was covered by the targeted surveys in 2019. Further targeted searching specifically for *Terminalia supranitifolia* (P3) and *Triodia chichesterensis* (P3) was also undertaken in other areas of suitable habitat within and immediately adjacent to the Study Area, to provide additional context for distribution and population size of these taxa.

A total of 267 discrete vascular flora taxa (including eight introduced taxa), two known hybrids and five putative hybrids were recorded during the 2018/2019 surveys within the Study Area. The taxa and hybrids represent 51 families and 130 genera. A total of 300 discrete vascular flora taxa (including 11 introduced taxa), three known hybrids and seven putative hybrids have been recorded in the Study Area from this and all other relevant previous surveys within the Study Area. These taxa and hybrids represent 52 families and 138 genera. The most well-represented families were Fabaceae (55 taxa, three known hybrids and seven putative hybrids), Poaceae (51 taxa) and Malvaceae (26 taxa).

A total of six significant flora taxa have been recorded from the Study Area by all surveys, comprising five Priority flora taxa (*Euphorbia clementii* (P3), *Heliotropium muticum* (P3), *Terminalia supranitifolia* (P3), *Triodia chichesterensis* (P3) and *Vigna triodiophila* (P3)) and one taxon considered significant for other reasons as per EPA (2016a; 2016b) (*Abutilon* aff. *hannii*). No Threatened flora taxa have been recorded from any survey within the Study Area.

A total of 15 vegetation units (VUs) were defined and mapped based on the results of the floristic classification analysis and subsequent examination of quadrat data. The 15 VUs defined represent four broad groups of vegetation, based on soils and topography:

- Group 1: Shrublands over hummock grasslands on steep to moderate crests and slopes to stony outwash plains influenced by granite, ironstone and/or dolerite (VU 1, 2, 3, 4, 5, 6, 7, 8, 9).
- Group 2: Low woodlands and shrublands over hummock and occasionally tussock grasslands on low, undulating to flat plains and minor drainage lines with sandy to clay loams with granite or quartz stones (VU 10, 11, 12, 13).
- Group 3: Low woodlands and shrublands over hummock and tussock grassland on clay to sandy loams on major drainage lines (VU 14).
- Group 4: Shrublands over hummock grasslands on stony plains with saline influence (VU 15).

No listed significant vegetation is known to occur in or within the vicinity of the Study Area. None of the VUs mapped within the Study Area are considered to represent any formally

listed Threatened or Priority Ecological Communities, nor are they considered to be significant for reasons other than formal listing. Although VUs 12, 13 and 15 are locally restricted, all VUs mapped in the Study Area are either known to, or are considered likely to, extend outside the Study Area to some extent.

1. INTRODUCTION

1.1 Project Overview

The MARBL Lithium Joint Venture (MARBL JV) owns and operates the Wodgina mine, located 90 km south of Port Hedland in the Pilbara region of Western Australia. The Wodgina mining area has been the location for a number of mining projects in the preceding decades, and therefore several flora and vegetation assessments of differing scopes have been undertaken over portions of the project area to support environmental approvals for these projects.

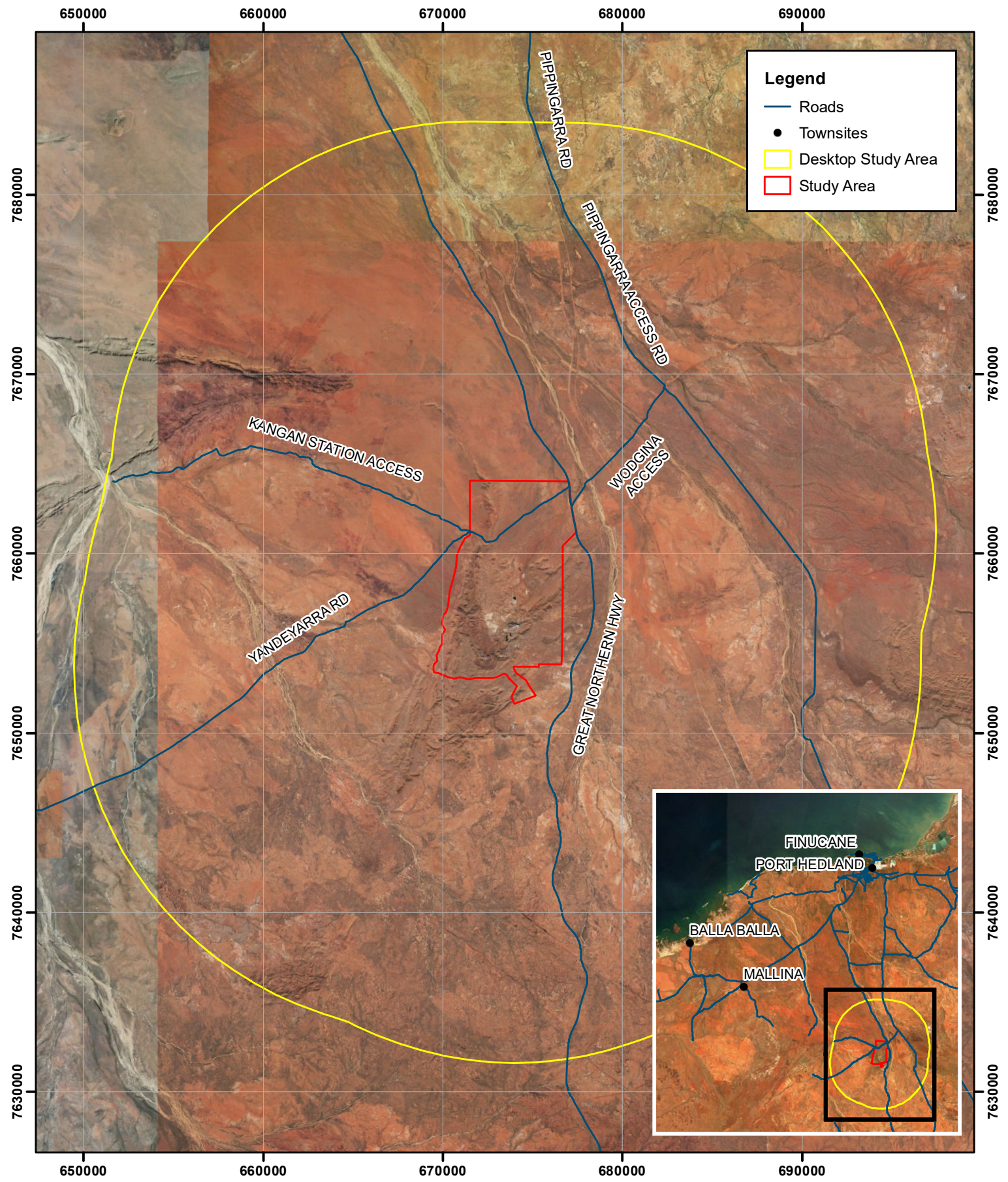
MARBL JV intends to expand operations at Wodgina (referred to as 'the Project') in the future. Woodman Environmental Consulting Pty Ltd (Woodman Environmental) were commissioned to review the findings of previous flora and vegetation assessments conducted in the Wodgina mining area, conduct a flora and vegetation assessment of unsurveyed areas potentially relevant to the Project, and produce a consolidated detailed flora and vegetation assessment that builds upon the results of previous assessments by incorporating new data.

It should be noted that Woodman Environmental have recently reported on the results of initial flora and vegetation assessments conducted for the Project in 2018 and 2019 (Woodman Environmental 2019a, b). These survey reports included vegetation mapping of a portion of the Study Area not previously mapped, as well as targeted survey for significant flora taxa over several areas. This current report includes all methods and findings from these reports, as well as presenting updated floristic analysis of quadrat data and vegetation mapping; therefore, these previous reports are no longer considered current.

1.2 Study Area Definition

The Project Study Area (Study Area), within which vegetation mapping and targeted significant flora searches were undertaken during 2018 and 2019 is shown on Figure 1. The Study Area encompasses 6,745 ha, and is located in the Shire of Port Hedland, approximately 90 km south of the town of Port Hedland and immediately west of Great Northern Highway.

A Desktop Study Area was also defined for the purpose of elements of the desktop study for the Project, including interrogation of databases and searches for relevant literature. The Desktop Study Area, encompasses the Study Area with a 20 km buffer, as shown on Figure 1.



Legend

- Roads
- Townsites
- Desktop Study Area
- Study Area

Study Area and Desktop Study Area Location



WOODMAN
ENVIRONMENTAL

This map should only be used in conjunction with WEC report MRL19-19-04.

Author: David Coultas

WEC Ref: MRL19-19-04

Filename: MRL19-19-04-f01.mxd

Scale: 1:275,000 (A4)

Projection: GDA 1994 MGA Zone 50

Revision: 0 - 4 April 2020



Figure
1

1.3 Aim and Objectives

The aim of the survey is to provide relevant botanical information to support the approvals process for the Project. The flora and vegetation survey of the Study Area was conducted in accordance with current EPA technical guidance (EPA 2016a).

The overall objectives of the assessment were to:

- Review and consolidate findings of previous flora and vegetation assessments conducted within the Study Area.
- Compile an inventory of vascular flora taxa that occur in the Study Area;
- Identify locations of vascular flora taxa occurring within the Study Area that are one of the following (hereafter referred to as significant flora taxa):
 - Listed Threatened Species under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) (Commonwealth);
 - Threatened Flora (T) under the *Biodiversity Conservation Act 2016* (BC Act) (WA);
 - Priority Flora taxa as classified by the Western Australian Department of Biodiversity, Conservation and Attractions (DBCA); and
 - Other significant flora taxa as defined by the Environmental Protection Authority (EPA) (2016a; b);
- Identify locations of introduced vascular flora taxa;
- Identify, map and describe Vegetation Units (VUs) that occur within the Study Area;
- Identify, map and describe vegetation that occurs within Study Area that is one of the following (hereafter referred to as significant vegetation):
 - Listed Threatened Ecological Communities (TECs) under the EPBC Act;
 - TEC under the BC Act;
 - Priority Ecological Communities (PECs) as classified by DBCA;
 - Other significant vegetation as defined by EPA (2016a; b); and
 - Wetland or riparian vegetation that is ground or surface water-dependent;
- Map the condition of the vegetation in accordance with EPA (2016a).

Definitions of Threatened and Priority Flora taxa, and TECs and PECs are provided in Appendices A and B respectively.

The survey and reporting works comply with the following documents:

- *Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA 2016a); and
- *Environmental Factor Guideline – Flora and Vegetation* (EPA 2016b).

1.4 Level of Assessment

The flora and vegetation survey of the Study Area conformed to the requirements of a Detailed Survey as defined in Section 4.3 of the *Technical Guidance for Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA 2016a). This is considered appropriate for the Project, which is located in an area (the Pilbara) that is known to support a moderate diversity of flora and vegetation relative to other areas of the state, including significant flora taxa and vegetation types (EPA 2016a).

This report presents the results of both the desktop study and field survey of the Study Area. The results of the desktop study, which include a review of known information relevant to the Study Area through all sources of literature available, are presented in Section 5.1. The results of the field survey of the Study Area are presented in Section 5.2, which includes findings from previous flora and vegetation assessments undertaken in the Study Area.

2. BACKGROUND

2.1 Climate

The Study Area is located within the Pilbara region (Beard 1990). The climate is classified as arid tropical, with precipitation received mainly over the summer months. Average annual precipitation is 250-300 mm, which is generally slightly higher than most of the Eremaean Province of Western Australia due to the influence of relatively frequent tropical cyclones that occur from November to April (Beard 1990; Bureau of Meteorology 2019a).

Figure 2 presents the average maximum temperature and average monthly precipitation for the preceding months up until the 2018/2019 field survey dates (January 2018-May 2019) as well as long-term average monthly maximum temperature and long-term average monthly precipitation data (2000-2019) for Marble Bar, the most relevant meteorological station to the Study Area (Bureau of Meteorology 2019b).

The precipitation in the 6 months preceding the 2018 field survey (January-June 2018) was above the long-term average (total of 408 mm received), compared to the long-term average for this period (321 mm) (Figure 2). This was the result of a tropical cyclone in January 2018 delivering 314 mm of rainfall, 210 mm above the long-term average precipitation for this month. However, precipitation in the months of February, March, April and May 2018 were all below-average (62 mm received), 131 mm below the average for this period (Figure 2).

The precipitation in the 6 months preceding the April 2019 field survey (October 2018-March 2019) was above the long-term average (total of 340 mm received), compared to the long-term average for this period (308 mm) (Figure 2). This was the result of a tropical cyclone in March 2019 delivering 246 mm of rainfall, 160 mm above the long-term average for this month. Wodgina is likely to have received more rainfall than this given Indee Station (35 km north of Wodgina) received 657 mm of rainfall in March 2019 (Bureau of Meteorology 2019a). However, precipitation in the months of October 2018 to February 2019 were below-average (94 mm received), 128 mm below the average for this period (Figure 2).

The precipitation in the 6 months preceding the June 2019 field survey (December 2018-May 2019) was only slightly above the long-term average for this period (total of 333 mm received), compared to the long-term average for this period (328 mm) (Figure 2). As aforementioned, the cyclone in March 2019 delivered above-average rainfall for this month, with below-average rainfall received during the other five months preceding the June 2019 survey.

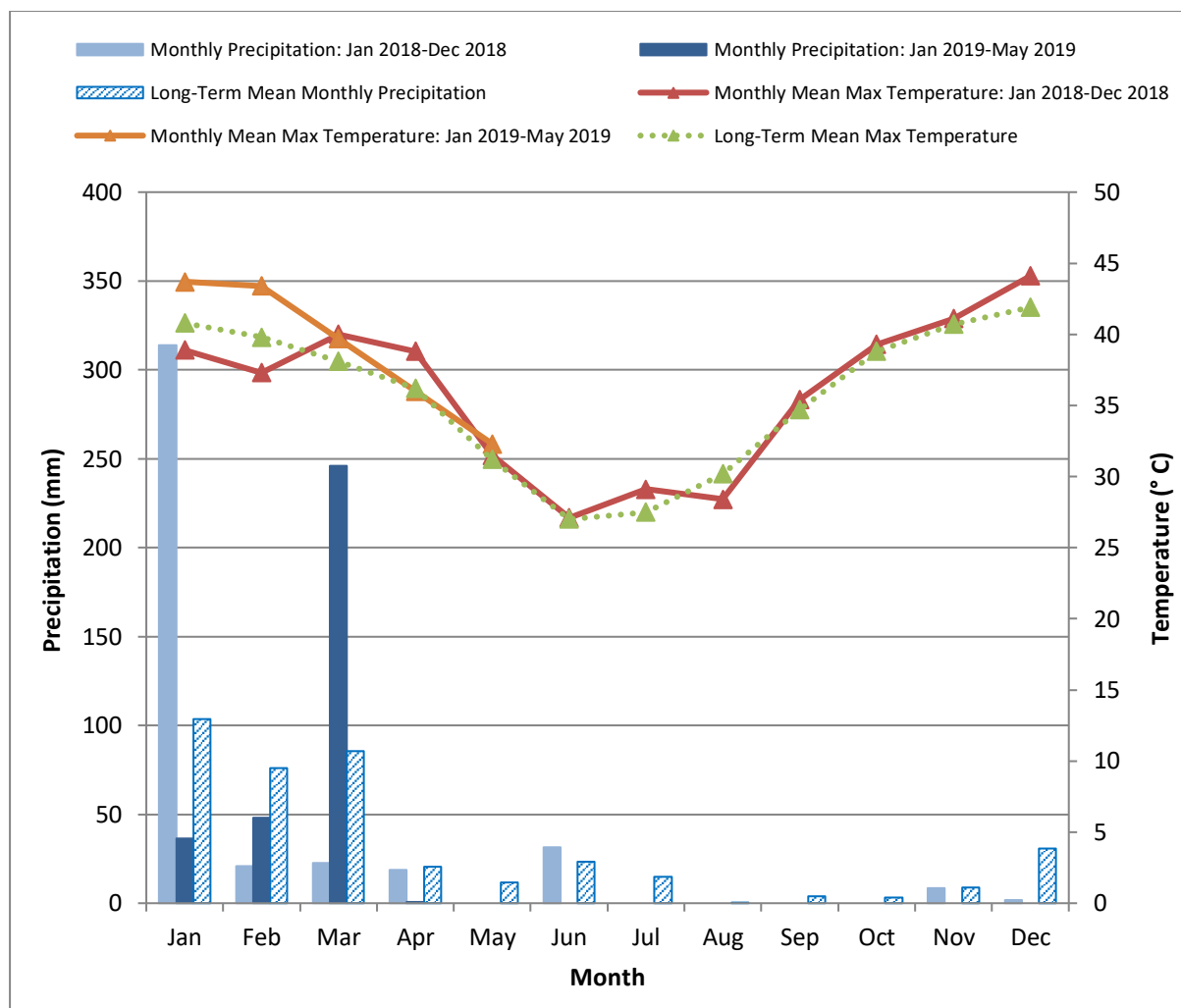


Figure 2: Temperature and Precipitation for Marble Bar (Bureau of Meteorology 2019b)

2.2 Geology, Landforms and Soils

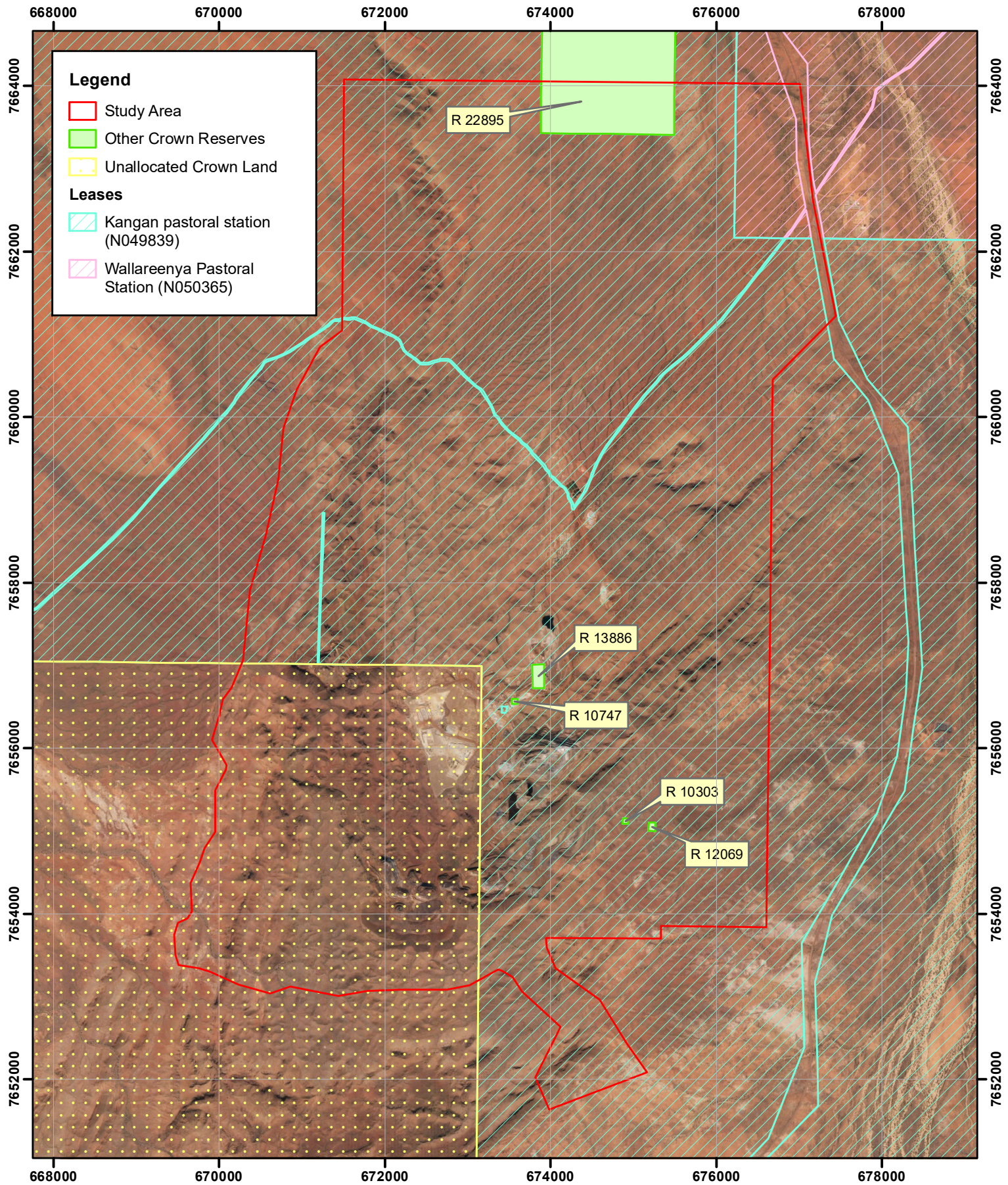
The Study Area is located in the Pilbara region (Fortescue Botanical District) as defined by Beard (1975; 1990). This is equivalent to the Pilbara Interim Biogeographic Regionalisation for Australia (IBRA) region (Commonwealth of Australia 2012). The Pilbara region is formed of a basement of Archaean granite and volcanics, overlain by massive deposits of Proterozoic sediments and volcanics (Beard 1990). This region is generally mountainous, rising to 1250 m, with hard alkaline red soils on plains and pediments, and shallow and skeletal soils on ranges. The Study Area traverses one physiographic region as defined by Beard (1975), being the Abydos Plain, and occurs within the geological province of the Wodgina Greenstone Belt.



The Abydos Plain is alluvial in origin near the coast while further inland is of Archaean granite origin. It consists of a variety of features including alluvial plains, pediplains, low stony hills and dissected pediments, low granite outcrops and tors, and basic dykes. It is divided into a number of isolated sections by the Gorge Ranges. The main soils are hard alkaline red soils, with some areas of coarse-textured A horizons to 45 cm thick, while other

areas have shallow stony A horizons. Patches of calcrete also occur. On the eastern part of the plain near the De Grey River, the soils are chiefly neutral and acidic red earths, while on the inland plains behind the Gorge Ranges, chief soils are earthy loams and coarse sands overlying granite within 90 cm of the soil surface. The alluvial plains along the coast generally consist of red earthy sands with extensive areas of red earths, and hard red soils along creek lines. Deep cracking clays occur in the vicinity of residuals of basic and ultrabasic rocks in the Roebourne area (Beard 1975).

2.3 Land Tenure

The Study Area is located on the Kangan and Wallareenya pastoral stations, Unallocated Crown Land (UCL) and Other Crown Reserves (R13886, R10303, R10747, R12069 and R22895) (Figure 3). There are extensive areas of both UCL and pastoral lease that surround the Study Area (DBCA 2007-). The nearest DBCA-reserved land, Mungaroon Range Nature Reserve, is located approximately 35 km south-west of the Study Area.



Land Tenure	Author: David Coultas	 Figure 3
	WEC Ref: MRL19-19-04	
Filename: MRL19-19-04-f03mxd		
Scale: 1:60,000 (A4)		
Projection: GDA 1994 MGA Zone 50		
 WOODMAN ENVIRONMENTAL <small>This map should only be used in conjunction with WEC report MRL19-19-04.</small>	Revision: 0 - 4 April 2020	

3. METHODS

3.1 Desktop Study Methods

Prior to commencement of the field survey, a review of all publicly available flora and vegetation data relevant to the Study Area was undertaken. This included interrogation of relevant regional databases and other sources as listed in Table 1, as well as obtaining and reviewing copies of reports of previous biological surveys undertaken within the vicinity of the Study Area (where available), including interrogation of the IBSA website.

Table 1: Searches Undertaken for the Desktop Study

Source	Search Attributes	Search Purpose
DBCA TEC and PEC Database (DBCA 2019c)	Database interrogated using Desktop Study Area boundary	Obtain records of DBCA-classified TECs and/or DBCA-classified PECs within the Desktop Study Area
DBCA TEC and PEC lists (DBCA 2018; DBCA 2019a)	Review of current DBCA TEC and PEC lists	Identify whether there are any DBCA listed TECs or PECs that could occur within the Desktop Study Area
DBCA Significant Flora Databases (WA Herbarium specimen database and Threatened and Priority Flora (TPFL) database) (DBCA 2019d)	Database interrogated using Desktop Study Area boundary	Obtain records of listed significant flora within the Desktop Study Area
Department of the Environment and Energy (DoEE) Species Profile and Threats (SPRAT) Database (interrogated using the Protected Matters Search Tool) (DoEE 2019)	Database interrogated using approximate Desktop Study Area boundary (exact boundary cannot be used); search included 20km surrounding a central point (21° 10' 32" S, 118° 39' 41" E); search performed prior to survey, updated 15/08/2019	Identify Matters of National Environmental Significance (MNES), including Threatened flora and TECs listed under the EPBC Act, that occur or have the potential to occur within the Desktop Study Area
DBCA <i>NatureMap</i> (WA Herbarium and Threatened and TPFL records) (DBCA 2007-)	Database interrogated using approximate Desktop Study Area boundary (exact boundary cannot be used); search included 20km surrounding a central point (21° 10' 32" S, 118° 39' 41" E); search performed prior to survey, updated 15/08/2019	Obtain records of listed significant flora and introduced flora within the Desktop Study Area
2018 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Government of Western Australia 2019)	Study Area	Identify extent of Vegetation System Associations within the Study Area

3.2 Personnel and Licensing

Table 2 lists the personnel involved in both fieldwork and plant identifications for the field assessment of the Study Area. The Project Managers and personnel undertaking plant identifications have had extensive previous experience (> 10 years) in conducting similar flora surveys in the Pilbara bioregion. All plant material was collected under either the

scientific licences pursuant to the *Wildlife Conservation Act 1950 (WC Act)* Section 23C or under the *Flora Taking (Biological Assessment) licences and Authorisation to Take or Disturb Threatened Species* pursuant to the *Biodiversity Conservation Act 2016*, sections 40, 274 and 275, as listed in Table 2.

Table 2: Personnel and Licensing Information

Personnel	Flora Collecting Permit (BC Act/WC Act)	Survey	Role
David Coultas BSc (Environmental Biology) (Hons)	SL012319 144-1718	June-July 2018	Field survey Plant identifications Reporting
	FB62000051 TFL23-1819	April 2019	Project Manager Field survey (team leader) Plant identifications
		June 2019	Project Manager field survey (team leader) Plant identifications
Leah Firth BSc (Conservation Biology)	FB62000055	April 2019	Field survey
		June 2019	Field survey
Bethea Loudon BSc (Biology)	SL012318 143-1718	June-July 2018	Project manager Feld survey Reporting
Emalyn Loudon BAg (Hons)	--	June-July 2018	Field survey
		June 2019	Field survey
Kelli McCreery MSc (Environmental Management)	SL012488	April 2019	Field survey
		June 2019	Field survey (team leader)
Marco Pratisoli PostGrad. Dip. Sc. (Environmental Biology and Management)	FB62000057	June 2019	Field survey
Marlee Starceвич BSc (Environmental Science) (Hons)	SL012321	June-July	Field survey
	FB62000056 TFL23-1819	April 2019	Field survey (team leader)
		June 2019	Field survey (team leader)
Sharnya Thompson	NA	June-July 2018	Plant identifications

3.3 Aerial Photography Interpretation and Survey Design

Initial interpretation of ortho-rectified aerial photography at a scale of 1:10,000 was conducted to determine preliminary vegetation patterns present within the Study Area, with quadrats allocated based on these patterns. A minimum of three quadrats were allocated to each major discernible vegetation pattern where possible. For smaller patterns, fewer quadrats were allocated based on the size of the pattern.

The Study Area has received considerable historical survey effort with regard to vegetation quadrat sampling, including the following historical survey areas:

- Turner River Hub (TRH): Level 2 vegetation and flora survey for Atlas Iron Ltd, survey work undertaken in 2011, partially within the Study Area (Woodman Environmental 2011a);

- Hercules: Level 2 vegetation and flora survey for Atlas Iron Ltd, survey work undertaken in 2012 entirely within the Study Area (Hercules Study Area forms a component of the Study Area) (Woodman Environmental 2012c; 2013a);
- Great Northern Highway (GNH) Upgrade: Level 2 vegetation mapping and targeted flora survey for Atlas Iron Ltd, survey work undertaken in May 2013, partially within the Study Area (Woodman Environmental 2013c).
- Wodgina Iron Ore Project 2018 Rehabilitation Monitoring: monitoring included the establishment of a number of baseline quadrats in remnant vegetation, entirely within the Study Area Wodgina Iron Ore Project 2018 Rehabilitation Monitoring.

Quadrat allocation for this current survey did not consider areas previously surveyed by Woodman Environmental; however, data from these quadrats was utilised for floristic analysis (see Section 3.6) and for building a taxon inventory for the Study Area (see Section 5.2.1.1). The exception was those quadrats sampled by the TRH survey; this was because the vegetation had been very recently burnt prior to that survey, and the resulting data was therefore problematic in terms of plant identifications in a number of instances. These quadrats were therefore denoted as requiring re-survey during the quadrat allocation process and were subsequently re-visited to locate specific taxa that were incompletely identified during the previous survey (see Section 3.4.2)

Whilst other historical consultant survey data and reports from within the Study Area were reviewed during the desktop study (see Section 5.1.3), quadrat data from these surveys was not used for floristic analysis purposes, and areas covered by such surveys were allocated quadrats by Woodman Environmental during 2018 – 2019.

The above-listed surveys, as well as a number of other surveys, also included targeted significant flora survey. However, because of the timing of some of these surveys, and the fact that a number of significant flora taxa have only been taxonomically recognised subsequent to these surveys being undertaken, previously surveyed areas were re-assessed as part of this current survey. However, some areas that were previously surveyed for *Terminalia supranitifolia* (P3) and were considered habitat for only this taxon in a significant flora context were not re-assessed; this is discussed further in Section 3.4.3.

3.4 Field Survey Methods

3.4.1 Survey Timing

The field flora and vegetation survey was undertaken over several survey periods, as outlined below:

- 26th June – 3rd July 2018 – detailed flora and vegetation survey – quadrats and opportunistic significant flora searching;
- 3rd – 9th April 2019 – targeted significant flora survey; and
- 17th – 25th June 2019 detailed flora and vegetation survey and targeted significant flora survey – quadrats and targeted significant flora searching.

The 2018 and 2019 surveys focussed on different areas within the Study Area, as ; this is indicated on Figure 4.

3.4.2 Detailed Flora and Vegetation Surveys Methods

The Study Area was accessed by vehicle using existing access tracks and via foot transects. A total of 170 non-permanent flora survey quadrats were established and surveyed within the Study Area during the 2018/2019 field surveys: 94 quadrats were established in 2018, with 76 established in 2019. All quadrats had a total area of 2500 m²; most measured 50 m x 50 m, however occasionally quadrats measuring 100 m x 25 m were established in narrower vegetation patterns such as those along creek lines.

The quadrat size used is the indicative size for flora and vegetation surveys in the Pilbara IBRA Bioregion, as outlined in Table 1 of the Technical Guidance (EPA 2016a). Quadrat locations were selected to ensure that at least three quadrats (where possible) were surveyed within each vegetation pattern initially identified from aerial photography interpretation (as per Section 3.3).

All vascular flora taxa that were visually identifiable within each quadrat were recorded. At least one reference specimen of most taxa encountered (excluding common, distinctive taxa) was collected for verification and identification purposes. The following information was recorded at each quadrat:

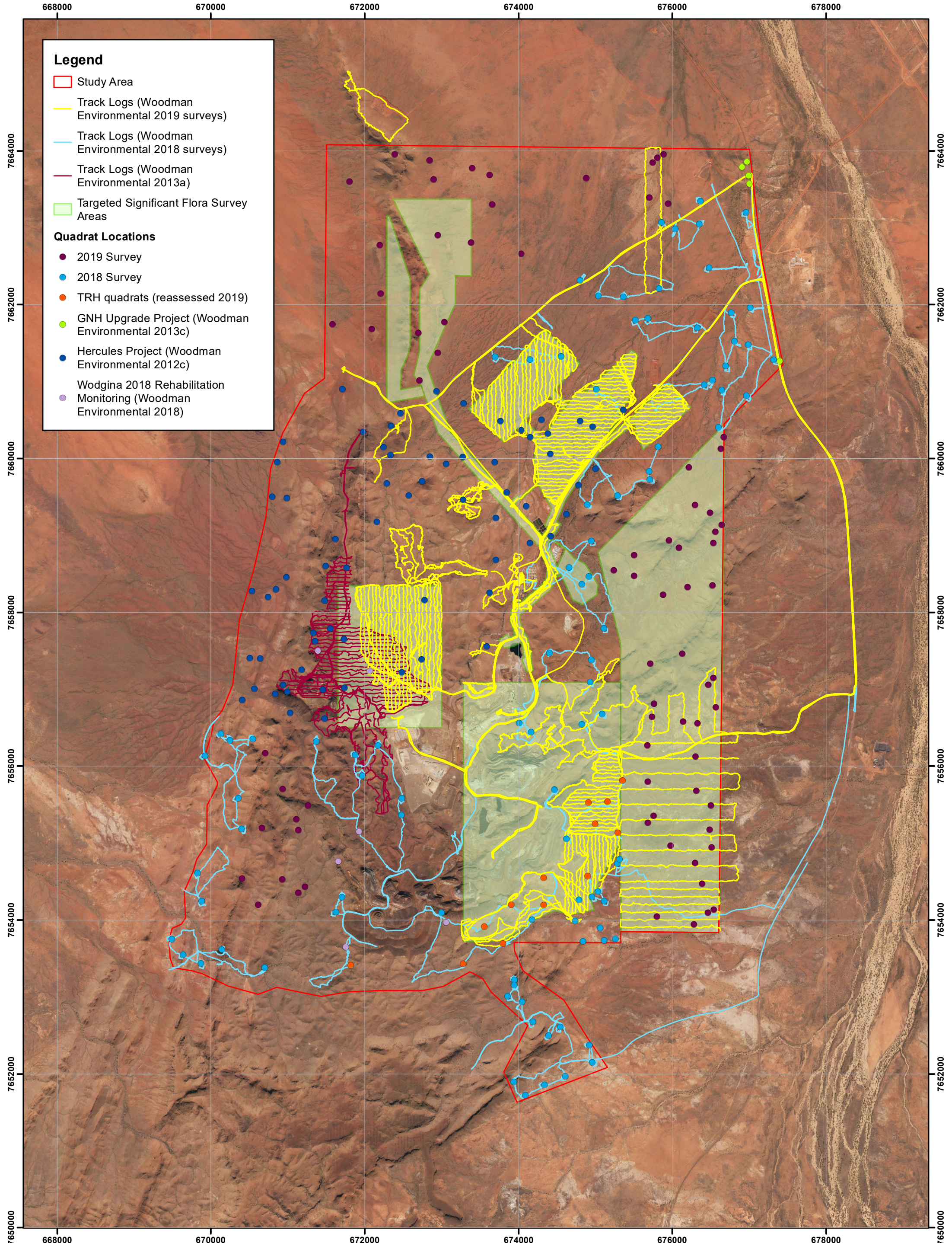
- Personnel;
- Unique quadrat number;
- Date of survey;
- GPS (Global Positioning System) coordinates at start corner of quadrat;
- Site photograph, taken diagonally into quadrat from start corner;
- Compass bearing for two sides of quadrat that commence at start corner of quadrat;
- Topography (including landform type and aspect);
- Soil colour and type (including the presence of any rock outcropping and surface stones);
- Vegetation condition (EPA 2016a, adapted from Trudgen (1988); scale presented in Appendix C);
- Approximate time since fire;
- Presence and type of disturbance (if any);
- Percentage foliage cover (for each vascular plant taxon, including cover within the quadrat of individuals rooted outside of the quadrat);
- Height (m) (average for each taxon, excluding climbers/aerial shrubs); and
- Additional flora taxa present immediately outside of the quadrat.

Notes on vegetation pattern boundaries and distribution were also taken while traversing the Study Area, including a GPS location at the point where the notes were taken, a brief description of the vegetation including dominant and characteristic taxa, and a photograph. These notes were used to aid in the mapping of polygons of vegetation patterns that were not allocated quadrats. Not all vegetation pattern polygons received quadrats due to time constraints; however, many polygons could be confidently allocated to a final VU using a combination of mapping notes and aerial photograph interpretation. Additional flora taxa were also recorded opportunistically in the Study Area during traverses on foot between quadrats, with GPS locations of such taxa recorded. Locations of any significant flora and

introduced flora taxa encountered opportunistically while traversing between quadrats were also recorded.

As noted above in Section 3.3, quadrats previously established by Woodman Environmental within the Study Area as part of the Turner River Hub survey (Woodman Environmental 2011a) were re-visited in 2018. A total of 13 quadrats were re-visited, but were not completely re-sampled; rather, they were traversed to locate specific taxa that were incompletely identified during the previous survey.

Traverses in the Study Area from the above surveys are mapped as track logs in Figure 4, along with quadrat locations. Please note that track logs from quadrat establishment for the Hercules survey (Woodman Environmental 2012c) and the Wodgina Iron Ore Project 2018 Rehabilitation Monitoring (Woodman Environmental 2018) are not available and therefore not presented.



Legend

- Study Area
- Track Logs (Woodman Environmental 2019 surveys)
- Track Logs (Woodman Environmental 2018 surveys)
- Track Logs (Woodman Environmental 2013a)
- Targeted Significant Flora Survey Areas

Quadrat Locations

- 2019 Survey
- 2018 Survey
- TRH quadrats (reassessed 2019)
- GNH Upgrade Project (Woodman Environmental 2013c)
- Hercules Project (Woodman Environmental 2012c)
- Wodgina 2018 Rehabilitation Monitoring (Woodman Environmental 2018)

3.4.3 Targeted Surveys for Significant Flora

Targeted survey for significant flora occurred over specific areas within the Study Area that may host future infrastructure (referred to as 'Targeted Significant Flora Survey Areas'). These areas were accessed by vehicle using existing access tracks, with survey undertaken via transects on foot. All suitable habitat for all significant taxa known to occur or potentially occurring within the Study Area (as per Section 5.1.4) within these areas (with the exception of *Terminalia supranitifolia* (P3) – see below) was surveyed using the method described below, regardless of previous searching efforts. These areas covered by the targeted surveys are shown on Figure 4.

Survey of suitable habitat for target significant flora within the Targeted Significant Flora Survey Areas was generally undertaken using a 50 m grid pattern (except in some instances for *Terminalia supranitifolia* (P3) – see below). However, transects deviated such that specific areas of habitat, such as the rock piles that *Vigna triodiophila* (P3) is known to inhabit, were also searched.

The following information was recorded at each location where significant flora taxa were found:

- Personnel and date;
- Taxon name;
- GPS location;
- Number of plants at location; and
- Condition of plants at location.

Due to the grid spacing used, numbers of plants recorded are not considered to be a full census of each taxon within the survey areas, but instead provide a conservative estimate of the numbers of individuals present.

Terminalia supranitifolia (P3) is a large, distinctive species that has been recorded by a number of previous surveys within the Study Area, and much survey time has been invested in recording individuals of this taxon across its rocky hill habitat (e.g. within the Hercules area (Woodman Environmental 2013a)). Therefore, suitable habitat for *Terminalia supranitifolia* (P3) in the Targeted Significant Flora Survey Areas that had been previously surveyed for it (primarily the Hercules area) was not re-surveyed. However, all remaining suitable habitat not previously surveyed was covered by the targeted surveys in 2019. Numerous historical locations of the significant taxon *Terminalia supranitifolia* (P3) were recorded by Woodman Environmental in the Hercules area, and by Outback Ecology (2009) in the Wodgina DSO Project area (located south-east of the Cassiterite Pit). A sub-sample of these locations was re-inspected in the field during the surveys in 2018 and 2019 to determine the current status of these locations; it was found that the numbers of individuals at all locations had not changed from those previously recorded. This taxon is a large, long-lived, slow-growing, re-sprouting species, which is generally very sparsely distributed (usually occurring as single individuals) (Woodman Environmental field observations). Recruitment of new individuals also appears to be very infrequent (only a handful of apparently young individuals have been observed).

While survey for *Terminalia supranitifolia* was also undertaken on foot, the 50 m grid pattern of transects was often not used in areas where this taxon was the only significant flora taxon known to or likely to occur. This was primarily because such habitat (rocky cliffs) was too steep, unsafe and/or time-consuming for this method to be employed. However, grid searching is not considered necessary to detect individuals of this species. As mentioned above, this species is very large relative to the grasses and small shrubs that dominate its habitat and is exceptionally distinctive in the field, being very glossy green (see Plate 1). This allows individuals to be confidently identified on cliffs from several hundred metres away (see Plate 2). This taxon is often better observed from some distance rather than close-up, as individuals can be somewhat camouflaged or hidden by exposed rocks when standing directly below cliffs. While one other species, *Ficus brachypoda*, grows in similar habitats and has a similar growth form, it has dull dark-green foliage and can be confidently differentiated even from some distance away.



Plate 1: *Terminalia supranitifolia* (P3) showing distinctive, glossy green foliage (photo: Woodman Environmental)

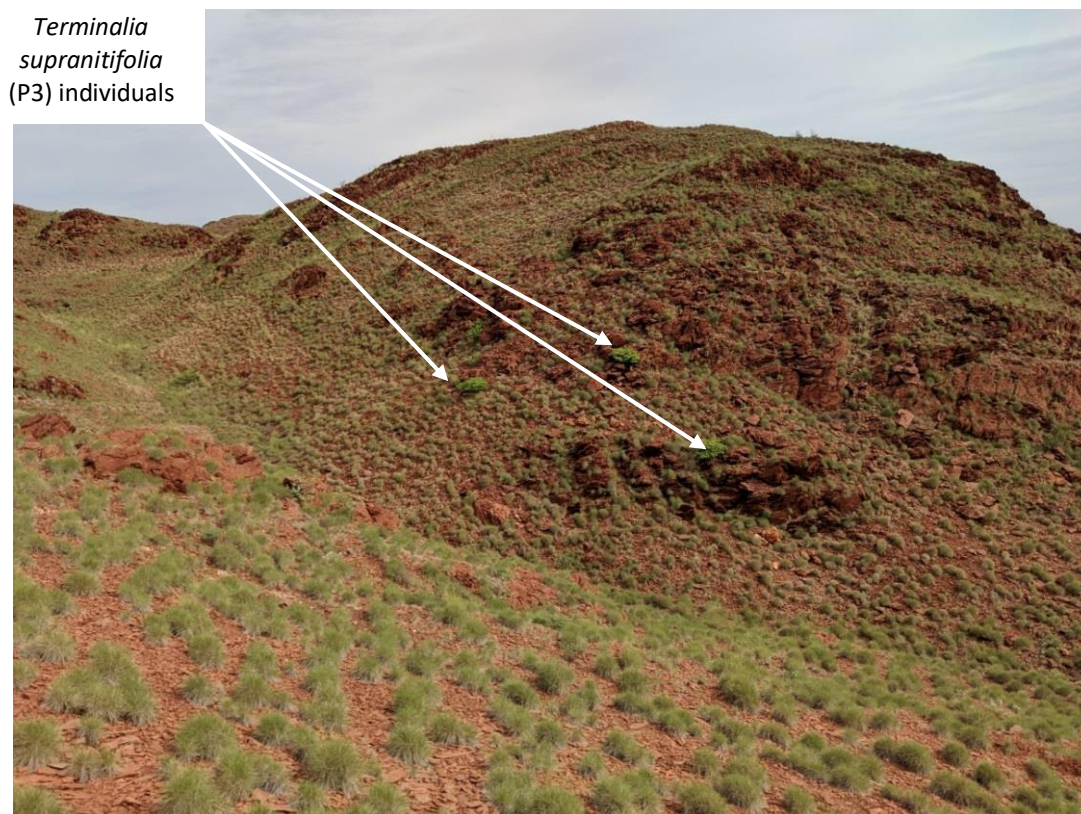


Plate 2: Distance view of *Terminalia supranitifolia* (P3) (photo: Woodman Environmental)

Individuals of *Terminalia supranitifolia* (P3) were generally recorded using the method outlined above for other significant taxa. However, in a number of instances, plants could not be safely reached on foot such that a GPS location could be recorded. In these instances, locations of plants were plotted on high-resolution aerial photography during the survey. This photography was of such high quality that individuals themselves could often be identified on the imagery. In other cases, nearby landmarks (usually rocky outcrops) were easily identifiable, allowing for individuals to be plotted with a high degree of accuracy (within 10 m).

Because of the obvious nature of this taxon, the number of plants recorded by the targeted surveys are considered to represent a relatively accurate census of this taxon in the Targeted Significant Flora Survey Areas.

Triodia chichesterensis (P3) is known to occur as the dominant spinifex taxon in suitable habitat in the Study Area (Woodman Environmental 2012c). As such, accurate counts of individuals are generally not possible in a reasonable timeframe. To estimate numbers of individuals in a given patch of habitat, individuals were counted in an approximate 10 x 10 m area and multiplied by the approximate size of the patch. This was the most appropriate way to determine a relatively accurate estimation of the number of individuals of this taxon within populations.

Further targeted searching specifically for *Terminalia supranitifolia* (P3) and *Triodia chichesterensis* (P3) was also undertaken in other areas of suitable habitat within and immediately adjacent to the Study Area, to provide additional context for distribution and population size of these taxa. All such searching was either via wandering foot transects in the case of *Terminalia supranitifolia* (P3), or via 50 m grid-pattern transects in the case of *Triodia chichesterensis* (P3).

All foot transects are presented as track logs on Figure 4.

3.5 Plant Collection and Identification

Specimens of any unknown taxa that were collected were pressed for later identification at the WA Herbarium. External experts of particular families or genera were consulted for any specimens considered to be difficult to identify or of taxonomic interest.

Taxon nomenclature generally follows *FloraBase* (WA Herbarium 1998-) with all names checked against the current DBCA Max database to ensure their validity. However, nomenclature in the published literature is followed in cases where names of plant taxa have been published recently in scientific literature but have not yet been adopted on *FloraBase* due to time constraints (WA Herbarium 1998-). The conservation status of each taxon was checked against *FloraBase*, which provides the most up-to-date information regarding the conservation status of flora taxa in Western Australia.

Specimens of interest, including significant flora taxa, range extensions of taxa and potential new taxa, are sent to the WA Herbarium for consideration for vouchering as soon as practicable. However, this process is via donation, and the WA Herbarium may not voucher all specimens, in accordance with its own requirements. The specimen vouchering will be supported by completed Threatened and Priority Flora Report Forms submitted to DBCA (Species and Communities Branch) in the case of listed significant flora (e.g. Threatened and Priority flora taxa).

3.6 Floristic Analysis

Classification analysis of floristic data from the Study Area was conducted using 262 quadrats established in the Study Area by Woodman Environmental. This included:

- 170 quadrats established in the Study Area in 2018/2019 by this current survey (see Section 3.4.2);
- 13 quadrats established for the TRH project (Woodman Environmental 2011a) that were re-visited in 2018 by this current survey;
- 68 quadrats established in 2011 for the Hercules project (Woodman Environmental 2012c);
- Five existing quadrats established for the GNH Upgrade Project (Woodman Environmental 2013c); and
- Six quadrats established for the Wodgina Iron Ore Project 2018 Rehabilitation Monitoring (Woodman Environmental 2011a).

All historical quadrats were reviewed thoroughly for taxonomic currency (both in a nomenclature and concept context); with nomenclature updated where required.

The analysis used 157 perennial taxa, with taxa belonging to several categories removed prior to analysis, as listed below:

- Ephemeral or annual taxa – the presence of ephemeral or annual taxa is strongly influenced by seasonal conditions, with fewer taxa and individuals usually present following below-average rainfall;
- Introduced taxa – introduced taxa were removed as their distributions are generally defined by the presence of disturbance (e.g. clearing, animal movement) rather than particular natural habitat types;
- Hybrids – hybrids are usually the result of random reproductive events that produce small numbers (often only one) of sterile offspring, and are often not associated with particular habitat types;
- Taxa where identification was unclear – taxa were removed from the analysis where identification was unclear due to poor available material in the field. However, if such a taxon was known to be unique within the dataset, it was included in the analysis.
- Singletons – taxa that occur only once in the dataset were removed as published studies indicate that they provide little information in the dataset (e.g. Markey and Dillon 2008).

All taxa removed from the classification analysis (excluding ephemeral or annual taxa, introduced taxa and singletons) are presented in Appendix E.

A single-layer data matrix (i.e. presence/absence data only) was used in the classification analysis. PATN (V3.12) (Belbin and Collins 2009) was utilised to perform the classification and ordination analysis of the data matrix. The Bray-Curtis coefficient was used to generate an association matrix for the classification analysis. This association matrix consisted of pairwise coefficients of similarities between quadrats based on floristic data. Agglomerative hierarchical clustering, using flexible Unweighted Pair Group Method with Arithmetic Mean (UPGMA) ($\beta = -0.1$), was used to generate a quadrat classification dendrogram (Sneath and Sokal 1973).

3.7 Vegetation Unit Definition, Mapping and Description

The classification analysis of Study Area floristic data aggregated quadrats into a group classification. The resulting dendrogram and taxon group matrix were initially examined at a group level determined by PATN as potentially appropriate for the dataset, to determine the plausibility of groups with regard to taxon groups, as well as field observations. This process determined a final number of clusters, which were considered to represent VUs.

VU descriptions have been adapted from the National Vegetation Information System (NVIS) Australian Vegetation Attribute Manual Version 6.0 (Executive Steering Committee for Australian Vegetation Information (ESCAVI) 2003), as stipulated by EPA (2016a). This model follows nationally-agreed guidelines to describe and represent VUs, so that comparable and

consistent data are produced nation-wide. It should be noted that the NVIS system utilises vegetation descriptions derived from structural characteristics of the individual community units, while the VUs presented in this report are defined based on the results of a floristic classification analysis, excluding any structural data. VUs therefore may include multiple structural types. Considering the effect of disturbance factors such as fire on vegetation structure, this approach is designed to provide a map of VUs that reflect taxon composition and the influences of the physical and chemical environment rather than disturbance history.

It should also be noted that this report describes VUs at the NVIS Sub-Association level, rather than the Association level as stipulated by EPA (2016a). This level is considered more appropriate for the vegetation of the Study Area, as often the vegetation possessed one or more additional strata to the traditional three-stratum classification system used at the Association level.

The locations of quadrats within each VU were used in conjunction with aerial photograph interpretation and mapping notes to develop VU mapping polygon boundaries. These VU mapping polygon boundaries were then digitised using Geographic Information System (GIS) software.

For each VU, indicator taxa were defined via Indicator Taxon Analysis (INDVAL). This was conducted using PC-Ord (V6.08) (McCune and Mefford 2011) via the method of Dufrene and Legendre (1997). This generates INDVAL values (a measure of taxon fidelity to a given VU), which range from 0 to 100; an INDVAL value of 100 indicates that a taxon is present in all quadrats within a particular VU, and absent from all other quadrats included in the analysis. The INDVAL values were then tested for significance of the indicator taxa using a Monte Carlo permutation test. Indicator taxa were defined as taxa with an INDVAL value > 14, and a significance P value of either <0.05, <0.01 or <0.001.

3.8 Vegetation Condition Mapping

Vegetation condition was described using the vegetation condition scale presented in EPA (2016a) (see Appendix C). Notes on vegetation condition were taken during the field survey via vehicle traverses along access tracks and during foot traverses undertaken within the Study Area. Vegetation condition was also recorded at all quadrats. Vegetation condition category polygon boundaries were developed using this information and were digitised using GIS software as for VU polygon boundaries.

3.9 Significant Flora and Vegetation

3.9.1 Significant Flora

As per EPA (2016b), flora taxa may be significant for a range of reasons, including, but not limited to the following:

- Being identified as a Threatened or Priority species (formally listed significant taxa – includes taxa listed under both State and Commonwealth legislation, and classified as Priority by DBCA);

- Locally endemic or associated with a restricted habitat type (e.g. surface water or groundwater dependent ecosystems);
- New species or species with anomalous features that indicate a potential new species;
- 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
- Relictual status, being representative of taxonomic groups that no longer occur widely in the broader landscape.

Significant taxa recorded within the Study Area are discussed in Section 5.2.1 with reference to the above categories. In this section, point locations, individuals and populations known from the Study Area are discussed. It is worthy of note that a population in the context of this survey is defined as a discrete group of individuals of a taxon separated by more than 500 m from the nearest discrete group of individuals (DBCA 2017). However, this definition can only be tentatively applied if the intervening 500 m has not been surveyed. This is discussed further in Section 5.2.1.

3.9.2 Significant Vegetation

As per EPA (2016b), vegetation may be significant for a range of reasons, including, but not limited to the following:

- Being identified as a TEC or PEC (formally listed significant vegetation – includes vegetation listed under Commonwealth legislation, endorsed as a TEC by the Western Australian Government, or classified as a PEC by DBCA);
- Having restricted distribution;
- Degree of historical impact from threatened processes;
- A role as a refuge; and
- Providing an important function required to maintain ecological integrity of a significant ecosystem.

With regard to TECs and PECs listed in Western Australia that occur in the Pilbara region, generally only broad descriptions are provided in the respective lists to allow for diagnosis. The vegetation of the Study Area was therefore manually compared to such descriptions to determine whether any vegetation may represent a TEC or PEC.

With regard to TECs listed under the EPBC Act, the vegetation of the Study Area was assessed against the appropriate listing and conservation advice for any TECs likely to occur in the Study Area.

The remaining significant vegetation criteria other than “being identified as a TEC and PEC” were applied to VUs mapped in the Study Area to determine whether a VU was significant in a local or regional context. In a regional context, limited information is available for comparison with VUs in the Study Area. This is discussed further in Section 5.2.2.

4. ADEQUACY AND LIMITATIONS OF SURVEY

4.1 Adequacy of Survey

The Study Area covers approximately 6,745 ha, with data from 262 quadrats used in the analysis. Quadrats were established in all preliminary vegetation patterns discernible by initial aerial photograph interpretation (Section 3.3), both to adequately sample variation in vegetation throughout the Study Area and to ensure adequacy of sampling for vascular plant taxa.

The number of quadrats established in the Study Area is considered to be an acceptable number given the low diversity of topography and soil types noted in the Study Area, as well as the size of the Study Area (approximately 1 quadrat established per 26 ha of Study Area; and approximately 1 quadrat per 23 ha of mapped native vegetation).

To provide an indication of the adequacy of this survey, a taxon accumulation curve was produced using PC-Ord (McCune and Mefford 2011). Taxon accumulation curves represent a theoretical model of the relationship between sampling intensity and taxon accumulation; when sampling intensity is increased, taxon accumulation is reduced, and a taxon accumulation curve becomes asymptotic.

The taxon accumulation curve for quadrat data from the Study Area was generated using all native taxa (both annual and perennial) recorded within each quadrat. Taxon accumulation calculations for the Study Area were then undertaken utilising the Chao-2 estimator for species richness (Chao 1987) and compared to the actual number of taxa recorded in the Study Area. This provides some indication as to whether sufficient quadrats were surveyed to adequately sample the species richness in the Study Area. As the generation of species accumulation curves includes quadrat data only, and not taxa recorded during targeted searching or otherwise opportunistically recorded, the indication of adequacy of survey provided is considered to be conservative.

Figure 5 presents the species accumulation curve generated from quadrat data from the Study Area. Using the Chao-2 estimator, the recorded number of taxa within quadrats is equivalent to 94.4 % of the estimated taxon richness in the Study Area; the estimated number of native taxa in the Study Area using Chao-2 was 269, with a total of 254 native taxa recorded in the 262 quadrats established within the Study Area by this current survey and previous surveys. It is of interest that when opportunistic records of taxa are included, 289 native taxa (see Section 5.2.1) were recorded in the Study Area, which is more than the Chao-2 estimate; this indicates that the Study Area was well-sampled.

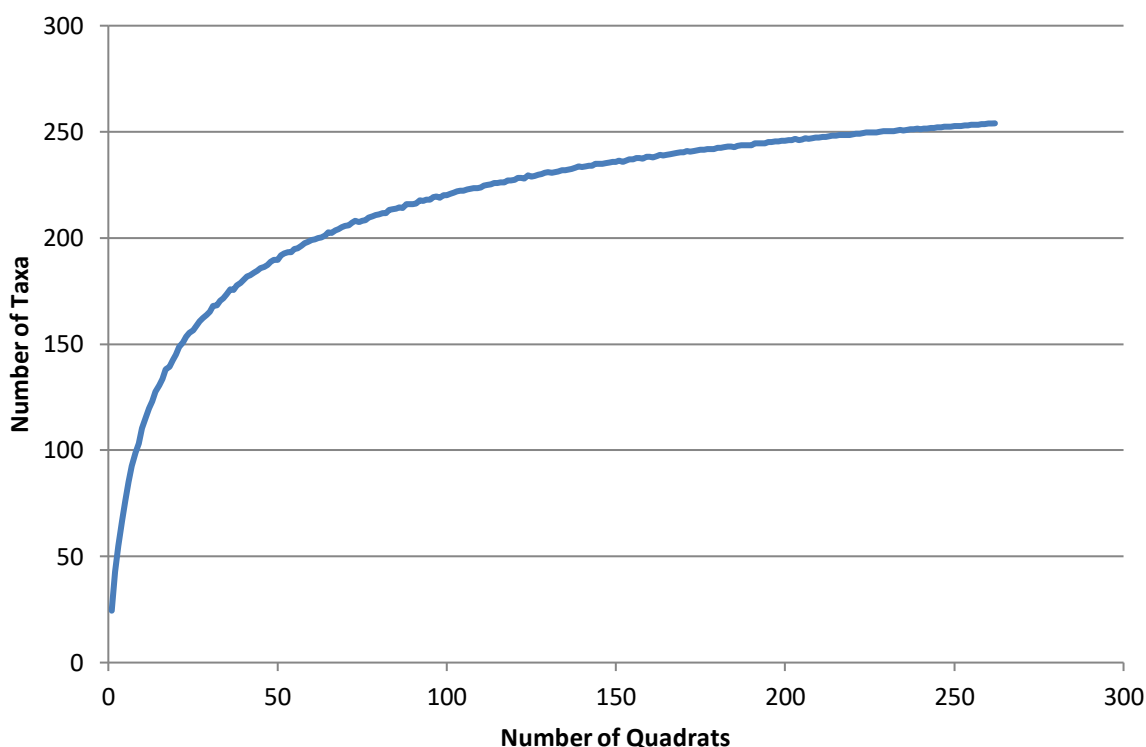


Figure 5: Study Area Quadrat Data Species Accumulation Curve

Another adequacy of survey measure is that developed by Mueller-Dombois and Ellenberg (1974), who suggest that an adequacy cut-off point might be when a 10 % increase in quadrats surveyed results in a 5 % (or less) increase in taxa recorded. This measure was also calculated using all native taxa recorded within each quadrat. The number of quadrats established in the Study Area satisfies this adequacy measure suggested by Mueller-Dombois and Ellenberg (1974), with the final taxon increase value of 1.13 % recorded following the final 10 % increase in quadrats.

4.2 Limitations of Survey

Table 3 presents the limitations of the flora and vegetation survey of the Study Area in accordance with EPA (2016a). This table deals specifically with the surveys conducted in 2018 and 2019. For previous surveys where data has been used in this report, either for the purposes of taxon inventory, significant flora distribution and abundance, or floristic analysis, individual reports were reviewed to identify any specific limitations that may have significantly affected the results. No significant limitations were identified, except for the quadrats established for the TRH project; however, this was mitigated by re-visits to all quadrats in the Study Area.

Table 3: Limitations of the Flora and Vegetation Survey of the Study Area

Limitation	Limitation of Survey	Comment
Effort and Extent	No	<p>Detailed survey undertaken across entire Study Area. Multiple quadrats were established in each vegetation pattern identified in the Study Area. No constraints prevented appropriate sampling techniques (quadrat establishment, foot transects) being employed. Relative ease of access within the Study Area enabled detailed vegetation type and condition mapping to be undertaken throughout the Study Area via foot and vehicle transects. Mapping reliability is therefore considered to be relatively high.</p> <p>Targeted survey for significant taxa within the Targeted Significant Flora Survey Areas covered all areas of suitable habitat on foot, with transects generally undertaken at 50 m intervals (Section 3.4.3). A 50 m interval was considered to be adequate to provide appropriate data on the distribution of significant flora taxa within the. When searching for smaller, cryptic taxa such as <i>Vigna triodiophila</i> (P3), small deviations of transects were undertaken to ensure all suitable habitat of rocky dolerite outcrops were checked carefully. Areas previously surveyed for <i>Terminalia supranitifolia</i> (P3) were not re-surveyed for this taxon. This was due to the long-lived nature of this taxon and the extensive historical survey effort attributed to this taxon. Due to the intervals between transects, and large numbers of some taxa encountered (e.g. <i>Triodia chichesterensis</i> (P3)), numbers of individuals presented are not considered to be a full census of each taxon within the survey areas, with the exception of <i>Terminalia supranitifolia</i> (P3) (Section 3.4.3). The numbers of individuals presented are considered to be a conservative estimate of the numbers of individuals actually present.</p> <p>Targeted searching for significant flora across the entire Study Area has not been undertaken. Further survey for significant flora taxa may be required depending on the precise location of future impact areas.</p>
Competency / experience of the team carrying out the survey	No	<p>Project Managers have had extensive experience (> 10 years) in conducting similar assessments in the Pilbara. Personnel conducting plant identifications have had > 10 years' experience in plant identification in the Pilbara. Senior personnel provided guidance to less experienced botanists throughout the survey where necessary. Relevant experts at the WA Herbarium were consulted regarding taxonomic identifications where required.</p>
Proportion of flora identified, recorded and/or collected.	No	<p>All vascular groups that were present in the Study Area were sampled. A high proportion of perennial vascular taxa were recorded based on the intensity and method of survey, and almost all could be positively identified. A high proportion of ephemeral vascular taxa were recorded based on the intensity and method of survey, and adequate rainfall prior to survey (see timing/weather/season/cycle below). However, detection and identification of some ephemeral taxa was difficult due to timing of rainfall prior to the survey (see timing/weather/season/cycle below). It is possible that a small number of particularly fragile taxa (e.g. some grass species) may not have been detectable or identifiable during some surveys. Unknown vascular taxa were collected, with specimens identified at the WA Herbarium.</p>

Limitation	Limitation of Survey	Comment
Sources of information e.g. previously available information (whether historic or recent) as distinct from new data	No	Good contextual information for the Study Area was available prior to the surveys. Sources of information used included government databases (DBCA, DoEE), previous unpublished reports and data from the vicinity of the Study Area (e.g. Mattiske 2000; Outback Ecology 2008, 2009; Woodman Environmental 2011a, 2011b, 2012b, 2012c, 2013a, 2013b, 2013c) as well as numerous general sources pertaining to the climate, geomorphology, flora and vegetation of the Pilbara.
Timing/weather/season/cycle	No	All surveys were conducted within the appropriate season for survey in the Pilbara bioregion (6-8 weeks post wet season – generally March-June). However, the lower than average rainfall in February – May 2018, in combination with higher than average temperatures in February, March and May 2018, resulted in the majority of ephemeral species senescing prior to the 2018 survey, and most perennial taxa not being in flower. It is possible that a small number of particularly fragile taxa (e.g. some grass species) may not have been detectable or identifiable. The area received significant rainfall in March 2019 (immediately prior to targeted survey conducted in April) as a result of a cyclone (see section 2.1). Although the first targeted survey in 2019 was conducted only weeks after the cyclone, and many taxa had only just germinated, this is not considered to have affected the results of this particular survey. The second survey in 2019, which involved quadrats and targeted survey, was conducted approximately 8 weeks after the cyclone; ephemeral taxa were visible during this survey, and many perennial taxa were in flower.
Disturbances (e.g. fire, flood, accidental human intervention etc.), which affected results of survey	Possible	A portion of the Study Area in the north-west corner had been affected by a recent fire (less than 6 months ago), preventing the establishment of quadrats within the area due to the difficulty in identification of regrowth. This area was mapped using aerial photography captured before the fire. A proportion of the Study Area was relatively recently burnt (within the last one to two years). However, taxa were usually mature enough to be identified and therefore this did not affect the results of the survey significantly, with the vegetation able to be confidently assigned to a VU. The fire history of parts of the Targeted Significant Flora Survey Areas affected the targeted survey results to a minor extent. While many <i>Euphorbia clementii</i> (P3) were located in parts of the survey areas by previous surveys when surveys were conducted within 1 or a few years post-fire, few were visible during the 2019 survey in areas where individuals had previously been recorded, due to post-fire decline seen with this taxa.
Remoteness and/or access problems	No	Although some areas were difficult to reach because of distances from available access tracks, or steep, rocky or unsafe terrain, this is not considered to have affected the results of the surveys.

5. RESULTS

5.1 Desktop Study

5.1.1 Regional Vegetation

As previously mentioned, the Study Area is located in the Pilbara IBRA region, specifically within the Abydos Plain (Beard 1975). Of the four main associations described on the Abydos Plain, shrub steppe is predominant in the Study Area (Beard 1975). This is the main community of the granite plain and is dominated by *Acacia pyrifolia*-*Triodia pungens* associations, with hummock grasses and widely-spaced shrubs.

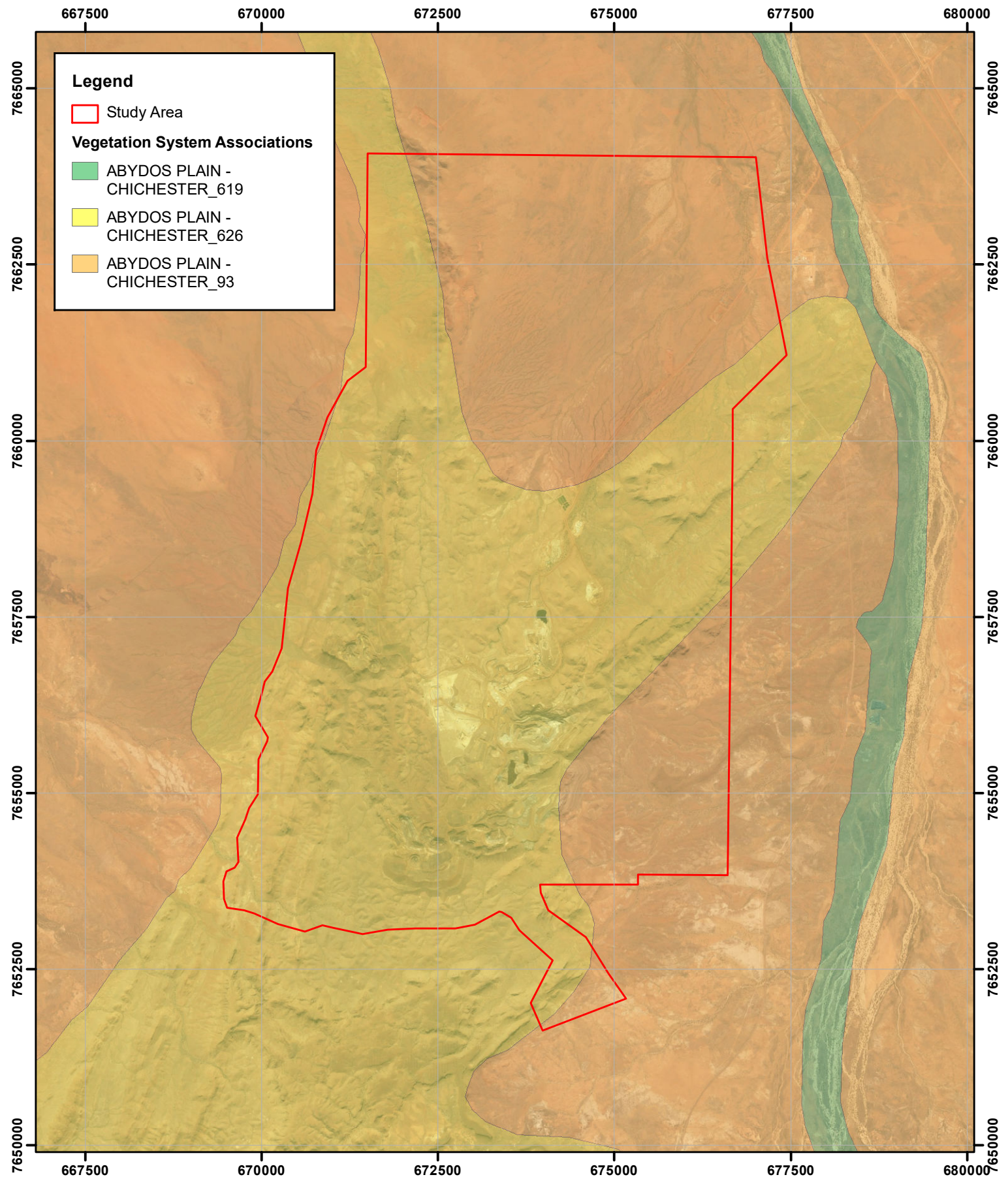
The Study Area occurs within the Chichester Subregion of the Pilbara IBRA region (Commonwealth of Australia 2012). The Chichester Subregion is comprised of undulating Archaean granite and basalt plains with significant areas of basaltic ranges. Plains support a shrub steppe characterised by *Acacia inaequilatera* over *Triodia wiseana* hummock grasslands, while *Eucalyptus leucophloia* tree steppes occur on ranges. Grazing of native pastures by stock and mining activity are the main impacts on biodiversity within the region (Kendrick and McKenzie 2001).



The vegetation mapping by Beard (1975) was used by Shepherd *et al.* (2002) to describe vegetation system associations (VSAs) throughout Western Australia at a scale of 1:250,000. Two VSAs occur in the Study Area as summarised in Table 4 and presented on Figure 6. Table 4 also presents the current extent of each VSA in relation to its pre-European extent (Government of Western Australia 2019) and the percentage of the current extent of each VSA currently reserved for conservation.

Two VSAs occur within the Study Area, both of which have over 99 % of their pre-European extent remaining. The Abydos Plain – Chichester_93 VSA has very little (< 1 %) reserved for conservation, whereas the Abydos Plain – Chichester_626 VSA has over 15 % reserved for conservation.

Table 4: Vegetation System Associations within the Study Area

Vegetation System Association	Description	Current Extent (ha)	Pre-European Extent Remaining (%)	Current Extent Protected for Conservation (%)
Abydos Plain – Chichester_93	Hummock grasslands, shrub steppe; kanji over soft spinifex	2,473,007	99.86	0.54
Abydos Plain – Chichester_626	Hummock grasslands, shrub-steppe; kanji over soft spinifex and <i>Triodia brizoides</i>	117,198	99.55	15.59



Vegetation System Associations of the Study Area	Author: David Coultas	 Figure 6
	WEC Ref: MRL19-19-04	
 WOODMAN ENVIRONMENTAL	Filename: MRL19-19-04-f06.mxd	
This map should only be used in conjunction with WEC report MRL19-19-04.	Scale: 1:70,000 (A4)	
	Projection: GDA 1994 MGA Zone 50	
	Revision: 0 - 4 April 2020	

In 2004, the Department of Agriculture described land systems within the Pilbara IBRA region, considering general ecological information, vegetation physiognomy and composition, patterns of variation, conservation status, gradational association and land system representation (Van Vreeswyk *et al.* 2004).

A total of seven land systems occur within the Study Area as summarised in Table 5 and presented on Figure 7. None of these land systems are listed as TECs or PECs (DBCA 2018; 2019a); the mapped extent of only one of these landforms (Platform) covered <1% of the Pilbara Study Area of Payne *et al.* (2004) (0.9%).

Table 5: Land Systems within the Study Area

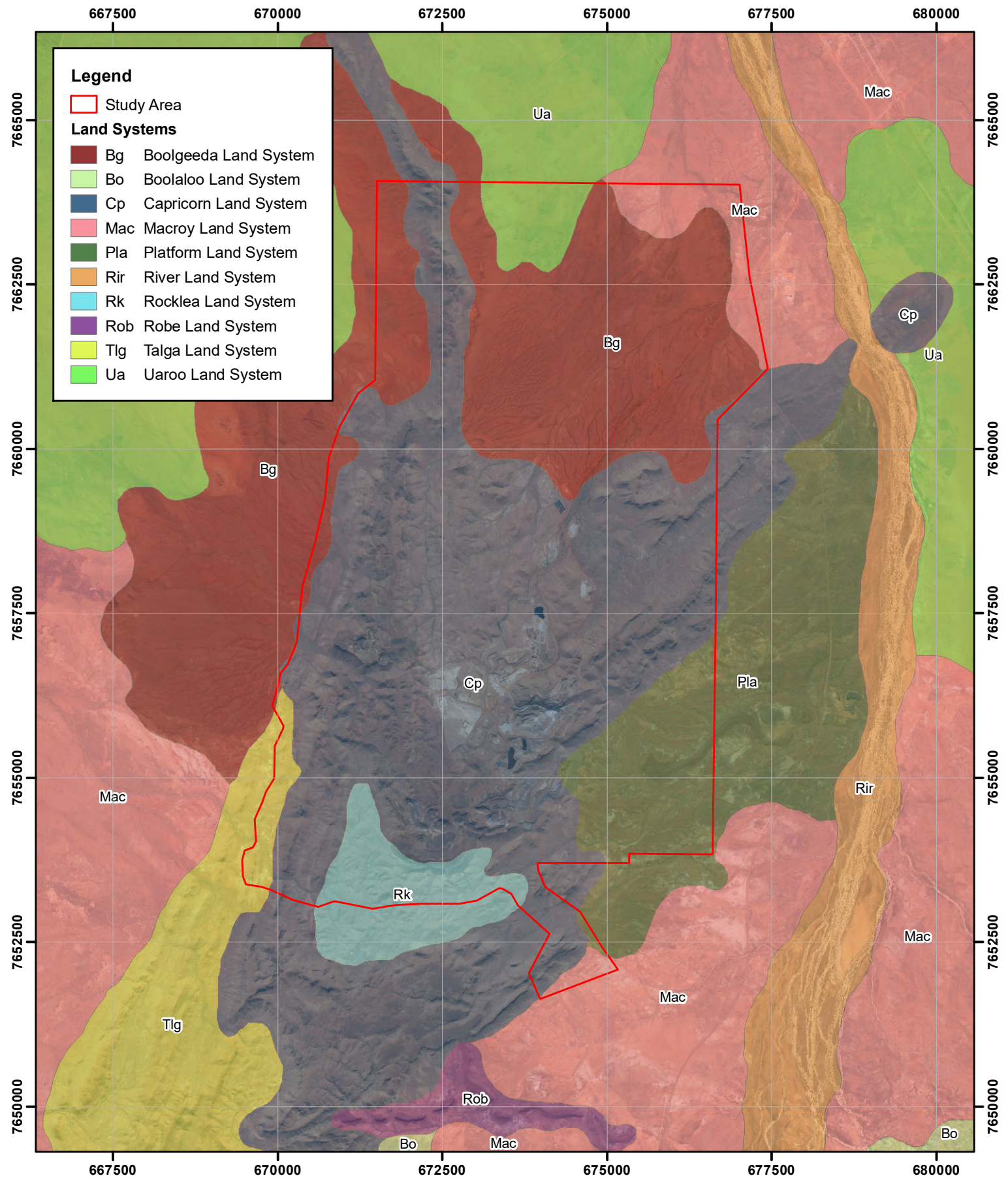
Land System	Description of Land System	Mapped Extent (ha)
Boolgeeda	Stony lower slopes and plains below hill systems supporting hard and soft spinifex grasslands and mulga shrublands	774,800
Capricorn	Hills and ridges of sandstone and dolomite supporting shrubby hard and soft spinifex grasslands	529,600
Macroy	Stony plains and occasional tor fields based on granite supporting hard and soft spinifex grasslands	1,309,500
Platform	Dissected slopes and raised plains supporting hard spinifex grasslands	1,570,00
Rocklea	Basalt hills, plateaux, lower slopes and minor stony plains supporting hard spinifex (and occasionally soft spinifex) grasslands	22,993,00
Talga	Hills and ridges of greenstone and chert and stony plains supporting hard and soft spinifex grasslands	212,400
Uaroo	Broad sandy plains supporting shrubby hard and soft spinifex grasslands	768,100



The Capricorn, Rocklea and Talga Land Systems are largely represented by VSA Abydos Plain-Chichester_626, corresponding to areas of higher relief including hills and ridges. The Boolgeeda, Uaroo, Macroy and Platform Land Systems are represented by VSA Abydos Plain-Chichester_93, corresponding to areas of lower relief including stoney plains, and dissected slopes to raised plains (Figure 6; Figure 7).

The interrogation of the DBCA TEC and PEC database (DBCA 2019c as per Section 3.1) did not identify any TECs or PECs within the Desktop Study Area.

The interrogation of the DBCA *NatureMap* database (DBCA 2007-) also did not identify any TECs or PECs known to occur within the Desktop Study Area.

The search of the DoEE SPRAT database with regard to MNES listed under the EPBC Act (DoEE 2019) did not identify any TECs as occurring or potentially occurring within the vicinity of the Study Area (Appendix D). Appendix B presents definitions, categories and criteria for TECs and PECs (DBCA 2013a).



Land Systems of the Study Area	Author: David Coultas	 Figure 7
	WEC Ref: MRL19-19-04	
Filename: MRL19-19-04-f07.mxd		
Scale: 1:75,000 (A4)		
Projection: GDA 1994 MGA Zone 50		
Revision: 0 - 4 April 2020		
 <small>This map should only be used in conjunction with WEC report MRL19-19-04.</small>		

5.1.2 Regional Flora

The interrogation of the DBCA WA Herbarium specimen database and TPFL database (DBCA 2019d) returned a total of 14 significant vascular flora taxa that have records within the Desktop Study Area. All are DBCA-classified Priority flora. These are presented in Table 6. Appendix A presents conservation codes for Western Australia flora (DBCA 2019b).

A search of these databases using *NatureMap* (DBCA 2007-) was also undertaken as part of the Desktop Study to check for any recently added records and to confirm the records returned from the DBCA WA Herbarium specimen database and TPFL database search. As per Table 1, the database was interrogated using a central point (21° 10' 32" S, 118° 39' 41" E) with a 20 km buffer. The *NatureMap* search did not return any additional significant flora taxa.

Table 6: Significant Flora Returned from Regional Database Searches (DBCA 2019d; DBCA 2007-)

Taxon	Status	Source
<i>Acacia leeuweniana</i>	P1	DBCA 2019d; <i>NatureMap</i>
<i>Acacia levata</i>	P3	DBCA 2019d
<i>Bulbostylis burbidgeae</i>	P4	DBCA 2019d; <i>NatureMap</i>
<i>Eragrostis crateriformis</i>	P3	DBCA 2019d
<i>Euphorbia clementii</i>	P3	DBCA 2019d; <i>NatureMap</i>
<i>Gomphrena leptophylla</i>	P3	DBCA 2019d; <i>NatureMap</i>
<i>Goodenia nuda</i>	P4	DBCA 2019d; <i>NatureMap</i>
<i>Gymnanthera cunninghamii</i>	P3	DBCA 2019d; <i>NatureMap</i>
<i>Heliotropium muticum</i>	P3	DBCA 2019d; <i>NatureMap</i>
<i>Nicotiana umbratica</i>	P3	DBCA 2019d; <i>NatureMap</i>
<i>Phyllanthus hebecarpus</i>	P3	DBCA 2019d; <i>NatureMap</i>
<i>Stylidium weeliwollii</i>	P3	DBCA 2019d; <i>NatureMap</i>
<i>Terminalia supranitifolia</i>	P3	DBCA 2019d; <i>NatureMap</i>
<i>Triodia chichesterensis</i>	P3	DBCA 2019d; <i>NatureMap</i>

A search of Department of the Environment and Energy (DoEE) Species Profile and Threats (SPRAT) Database was undertaken to identify Matters of National Environmental Significance (MNES), including Threatened flora and TECs listed under the EPBC Act, that occur or have the potential to occur within the vicinity of the Study Area. As per Table 1, the search was undertaken using a central point (21° 10' 32" S, 118° 39' 41" E) with a 20 km buffer (DoEE 2019). The search did not identify any flora taxa listed as Threatened Species, or habitat for Threatened Species, as listed under the EPBC Act, that are likely to occur within the search area.

The search of the DoEE SPRAT database with regard to MNES listed under the EPBC Act identified one significant invasive introduced flora taxon, or habitat for this taxon, as likely to occur within the Desktop Study Area; being *Cenchrus ciliaris* (Buffel Grass). *Cenchrus ciliaris* is known to be widespread and common in the Pilbara (WA Herbarium 1998-). This taxon is considered by the States and Territories to pose a particularly significant threat to biodiversity as it is known to be invasive under certain conditions (Hussey *et. al.* 2007; DoEE 2019). The full results of the DoEE database search are presented in Appendix D.

A search of the WA Herbarium specimen database for records of introduced taxa within the Desktop Study Area was performed using *NatureMap* using the same search parameters as the *NatureMap* significant flora search. A total of five introduced taxa that have records within the vicinity (20 km) of the Study Area were returned. These taxa are presented in Section 5.1.5. Of these, *Calotropis procera* is a Declared Pest listed under the *Biosecurity and Agriculture Management Act 2007* (BAM Act) (DPIRD 2019), and *Opuntia stricta* is a Declared Pest and a listed Weed of National Significance (WoNS) (AWC 2019) (Section 5.1.5).

5.1.3 Local Flora and Vegetation Surveys

Flora and vegetation assessments have been undertaken at Wodgina since 1989 (Dames and Moore 1989). Flora and vegetation surveys undertaken within the vicinity of the Study Area that are relevant to the Project are summarised in Table 4. The locations of relevant surveys undertaken within the Study Area are shown on Figure 8 (subject to the availability of survey boundary files).

Table 4: Summary of Flora and Vegetation Surveys Previously Conducted in the Vicinity of the Study Area

Project	Location	Study	Parameters of Survey	Number of Taxa	Vegetation	Significant Flora Taxa^	Introduced Taxa^
Flora, Vegetation and Fauna of the Proposed Expansion at Wodgina	Overlaps northern/central section of the Study Area	Mattiske (2000)	Not specified	214 taxa; 112 genera; 46 families	18 vegetation units; no TECs or PECs identified	<i>Acacia aphanoclada</i> (P1) listed although identification appears to be incorrect based on <i>FloraBase</i> records (WA Herbarium 1998-) and therefore is not considered further	3 taxa: <i>Aerva javanica</i> ; <i>Cenchrus ciliaris</i> ; <i>Sagina apetala</i>
Talison Minerals Wodgina Operations and Mt Francisco: Vegetation and Flora Survey and DRF and Priority Targeted Search	Overlaps southern/central section of the Study Area	Outback Ecology (2008)	Survey area traversed on foot	111 taxa; 69 genera; 36 families	11 vegetation units; no TECs or PECs identified	-	3 taxa: <i>Aerva javanica</i> ; <i>Passiflora foetida</i> var. <i>hispid</i> ; <i>Cenchrus ciliaris</i>
Wodgina DSO Project Flora and Vegetation Assessment	Overlaps southern/central section of Study Area	Outback Ecology (2009)	41 quadrats; 66 relevès over 550 ha	122 taxa; 67 genera; 38 families	12 vegetation units; no TECs or PECs identified	1 taxon: <i>Terminalia supranitifolia</i> (P3)	1 taxon: <i>Aerva javanica</i>
Turner River Hub (TRH) Project Flora, Vegetation and Mangal Studies	Overlaps a small part of the eastern section of the Study Area	Woodman Environmental (2011a)	17 quadrats within the Study Area	Full number of taxa not relevant given survey area extends far beyond the Study Area	11 vegetation units within the Study Area	2 taxa within the Study Area: <i>Euphorbia clementii</i> (P3); <i>Terminalia supranitifolia</i> (P3); <i>Triodia chichesterensis</i> (P3)*	2 taxa within the Study Area <i>Aerva javanica</i> ; <i>Cenchrus ciliaris</i>
Wodgina Ore Stockpile Area Flora and Vegetation Assessment	Overlaps part of the northern section of the Study Area	Woodman Environmental (2011b)	3 relevès over 12 ha	19 dominant taxa	3 vegetation units; no TECs or PECs identified	1 taxon: <i>Euphorbia clementii</i> (P3)	1 taxon: <i>Cenchrus ciliaris</i>

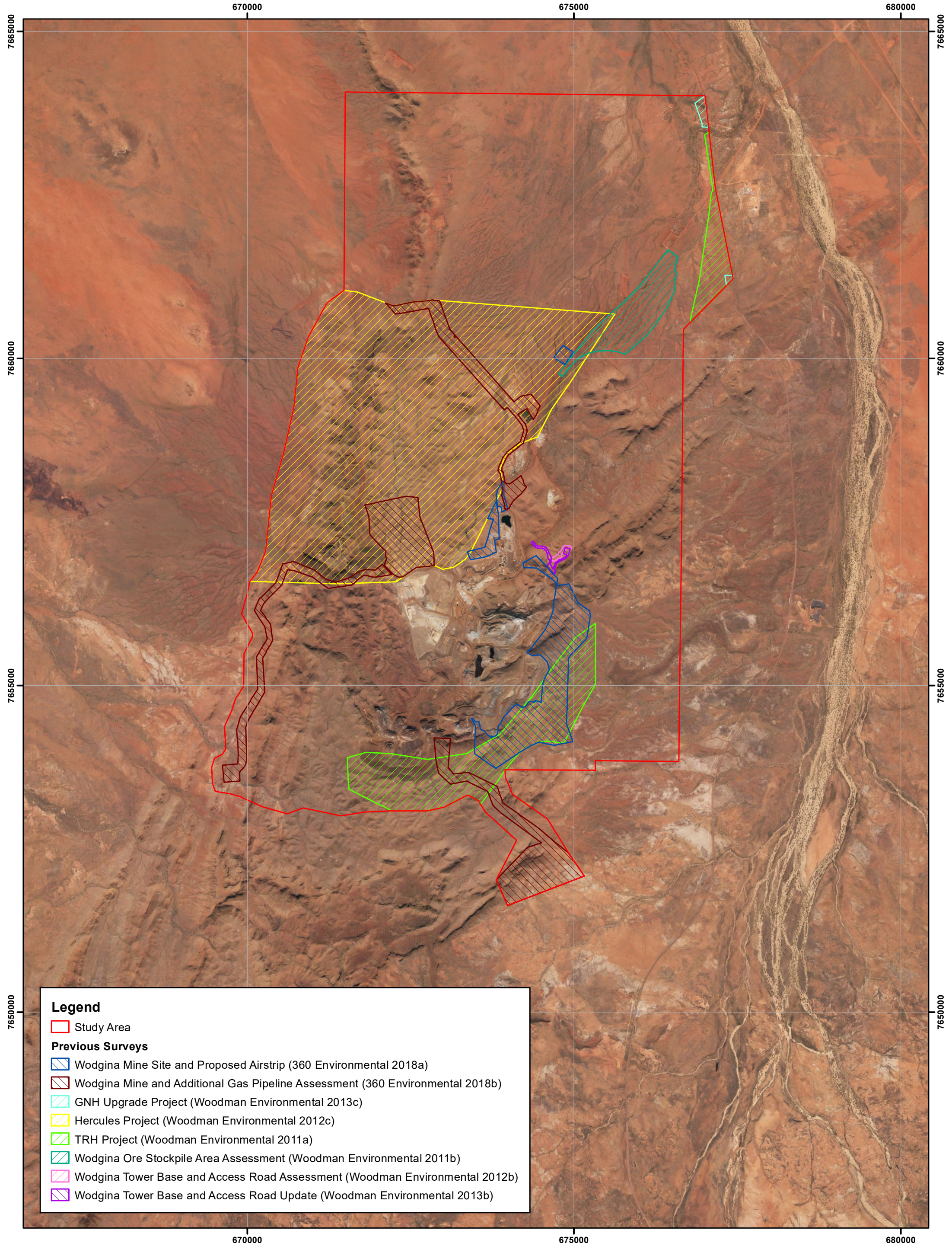
Project	Location	Study	Parameters of Survey	Number of Taxa	Vegetation	Significant Flora Taxa^	Introduced Taxa^
Wodgina Proposed Tower Base and Access Road Flora and Vegetation Assessment	Overlaps the central/eastern section of the Study Area	Woodman Environmental (2012b)	8 relevès over 4.2 ha	33 dominant taxa	5 vegetation units; no TECs or PECs identified	1 taxon: <i>Terminalia supranitifolia</i> (P3)	2 taxa: <i>Aerva javanica</i> ; <i>Cenchrus ciliaris</i>
Flora and Vegetation Studies for the Hercules Project	Forms central western section of the Study Area	Woodman Environmental (2012c)	68 quadrats over 1583.9 ha	211 taxa; 105 genera; 43 families	6 vegetation units; no TECs or PECs identified	3 taxa: <i>Euphorbia clementii</i> (P3); <i>Terminalia supranitifolia</i> (P3); <i>Triodia chichesterensis</i> (P3)* <i>Vigna triodiophila</i> (P3)	6 taxa: <i>Aerva javanica</i> ; <i>Cenchrus ciliaris</i> ; <i>Cynodon dactylon</i> ; <i>Flaveria trinervia</i> ; <i>Passiflora foetida</i> var. <i>hispida</i> ; <i>Trianthema portulacastrum</i>
Hercules DSO Project Conservation Significant Flora Assessment	Forms central section of the Study Area	Woodman Environmental (2013a)	Survey area traversed	-	-	1 taxon: <i>Terminalia supranitifolia</i> (P3)	-
Wodgina Proposed Tower Base and Access Road Flora and Vegetation Assessment – Additional Assessment	Overlaps a small part of the central section of the Study Area	Woodman Environmental (2013b)	8 relevès over 2.74 ha	26 dominant taxa	5 vegetation units; no TECs or PECs identified	1 taxon: <i>Terminalia supranitifolia</i> (P3)	2 taxa: <i>Aerva javanica</i> ; <i>Cenchrus ciliaris</i>
Great Northern Highway (GNH) Upgrade Project Flora and Vegetation Assessment	Overlaps a small part of the north-eastern section of the Study Area	Woodman Environmental (2013c)	5 quadrats within the Study Area	Full number of taxa not relevant given survey area extends far beyond the Study Area	4 vegetation units within the Study Area	No taxa within the Study Area	2 taxa within the Study Area <i>Aerva javanica</i> ; <i>Cenchrus ciliaris</i>

Project	Location	Study	Parameters of Survey	Number of Taxa	Vegetation	Significant Flora Taxa^	Introduced Taxa^
Flora and Vegetation of the Cassiterite Pit Extension and EWL Extension	Overlaps part of the central section of the Study Area	Western Botanical (2017)	7 quadrats; 37 relevés over 110.12 ha	114 taxa; 65 genera; 31 families	5 vegetation units; no TECs or PECs identified	1 taxon: <i>Terminalia supranitifolia</i> (P3)	5 taxa: <i>Aerva javanica</i> ; <i>Cenchrus ciliaris</i> ; <i>Chloris barbata</i> ; <i>Passiflora foetida</i> ; <i>Physalis angulata</i>
Wodgina Mine Site and Proposed Airstrip Flora, Vegetation and Fauna Assessment	Overlaps the majority of the Study Area	360 Environmental Pty Ltd (360 Environmental) (2018a)	17 relevés over 988 ha	56 taxa; 34 genera; 18 families	8 vegetation units; no TECs or PECs identified	2 taxa: <i>Terminalia supranitifolia</i> (P3); <i>Heliotropium muticum</i> (P3)	4 taxa: <i>Aerva javanica</i> ; <i>Calotropis procera</i> ; <i>Cenchrus ciliaris</i> ; <i>Passiflora foetida</i> var. <i>hispida</i>
Wodgina Mine and Additional Gas Pipeline Flora, Vegetation, Fauna and Targeted Northern Quoll Assessment	Overlaps part of the central section of the Study Area	360 Environmental (2018b)	20 relevés over 1869 ha	79 taxa; 51 genera; 25 families	18 vegetation units; no TECs or PECs identified	-	2 taxa: <i>Aerva javanica</i> ; <i>Cenchrus ciliaris</i>
Wodgina Mine Flora, Vegetation and Fauna Assessment Addendum	Overlaps part of the central/northern section of the Study Area	360 Environmental (2018c)	5 relevés over 96 ha	43 taxa; 28 genera; 18 families	8 vegetation units; no TECs or PECs identified	1 taxon: <i>Terminalia supranitifolia</i> (P3)	5 taxa: <i>Aerva javanica</i> ; <i>Calotropis procera</i> ; <i>Cenchrus ciliaris</i> ; <i>Cyperus ?rotundus</i> ; <i>Passiflora foetida</i> var. <i>hispida</i>
Wodgina Aerodrome Detailed Flora and Vegetation Survey	8 km north of the Study Area	360 Environmental (2018d)	7 quadrats; 4 relevés over 469 ha	62 taxa; 36 genera; 20 families	2 vegetation units; no TECs or PECs identified	1 taxon: <i>Heliotropium muticum</i> (P3)	-

Project	Location	Study	Parameters of Survey	Number of Taxa	Vegetation	Significant Flora Taxa^	Introduced Taxa^
Wodgina Iron Ore Project 2018 Rehabilitation Monitoring	Within the Study Area	Woodman Environmental (2018)	6 baseline quadrats, rehabilitation transects established	NA	NA	NA	NA

^Significant flora and introduced flora as per current *FloraBase* listing (WA Herbarium 1998)

*The *Triodia* aff. *basedowii* collections recorded by Woodman Environmental 2011a and 2012c are referable to *Triodia chichesterensis*, which was described as a new taxon following taxonomic studies undertaken after these reports were finalised.



Legend

- Study Area
- Previous Surveys**
- Wodgina Mine Site and Proposed Airstrip (360 Environmental 2018a)
- Wodgina Mine and Additional Gas Pipeline Assessment (360 Environmental 2018b)
- GNH Upgrade Project (Woodman Environmental 2013c)
- Hercules Project (Woodman Environmental 2012c)
- TRH Project (Woodman Environmental 2011a)
- Wodgina Ore Stockpile Area Assessment (Woodman Environmental 2011b)
- Wodgina Tower Base and Access Road Assessment (Woodman Environmental 2012b)
- Wodgina Tower Base and Access Road Update (Woodman Environmental 2013b)

5.1.4 Summary of Significant Flora

A list of significant flora taxa known from within the Study Area and surrounds is presented in Table 5. This list has been compiled from the results of the desktop searches of the DBCA WA Herbarium and TPFL Databases (DBCA 2019d), DBCA *NatureMap* (DBCA 2007-), DoEE's SPRAT Database (DoEE 2019) and the results of local surveys as outlined in Section 5.1.3.

A total of 15 significant taxa are known from within the vicinity of the Study Area. These are all DBCA-classified Priority flora, with no Threatened flora returned. Of these, five taxa are known from within the Study Area itself (highlighted in yellow in Table 5). Figure 9 presents the known historical locations of significant flora taxa in the desktop study area.

Table 5: Significant Flora Taxa Known from the Study Area and Surrounds

Taxon	Status	Source*	Flowering Period (WA Herbarium 1998-)	Habitat (WA Herbarium 1998-)
<i>Acacia leeuweniana</i>	P1	DBCA 2019d; <i>NatureMap</i>	Not specified	Granite outcrops
<i>Acacia levata</i>	P3	DBCA 2019d	Not specified	Stony plains, granite hills and outcrops
<i>Bulbostylis burbidgeae</i>	P4	DBCA 2019d; <i>NatureMap</i>	March or June to August	Granite outcrops
<i>Eragrostis crateriformis</i>	P3	DBCA 2019d	February to August	Drainage lines and clay pans
<i>Euphorbia clementii</i>	P3	DBCA 2019d; <i>NatureMap</i> ; Woodman Environmental	May to June	Rocky slopes and plains
<i>Gomphrena leptophylla</i>	P3	DBCA 2019d; <i>NatureMap</i>	March to September	Plains, flats and drainage lines
<i>Goodenia nuda</i>	P4	DBCA 2019d; <i>NatureMap</i>	March to July	Plains, flats and drainage lines
<i>Gymnanthera cunninghamii</i>	P3	DBCA 2019d; <i>NatureMap</i>	January to December	Major drainage lines
<i>Heliotropium muticum</i>	P3	DBCA 2019d; <i>NatureMap</i> ; 360 Environmental	April to November	Plains and flats
<i>Nicotiana umbratica</i>	P3	DBCA 2019d; <i>NatureMap</i>	April to June	Rocky outcrops; usually granite
<i>Phyllanthus hebecarpus</i>	P3	DBCA 2019d; <i>NatureMap</i>	Not specified	Granite outcrops
<i>Stylidium weeliwolli</i>	P3	DBCA 2019d; <i>NatureMap</i>	March to October	Drainage lines, seepage areas on granite outcrops and edges of pools. Damp soil
<i>Terminalia supranitifolia</i>	P3	DBCA 2019d; <i>NatureMap</i> ; Outback Ecology; Western Botanical; Woodman Environmental; 360 Environmental	May, July or December	Rock outcrops, cliffs and breakaways

Taxon	Status	Source*	Flowering Period (WA Herbarium 1998-)	Habitat (WA Herbarium 1998-)
<i>Triodia chichesterensis</i>	P3	DBCA 2019d; <i>NatureMap</i> ; Woodman Environmental	Not applicable – after rainfall	Plains and low ridges
<i>Vigna triodiophila</i>	P3	Woodman Environmental	March to June	Rocky hills, slopes and outcrops among boulders

*Sources are:

DBCA 2019d – DBCA WA Herbarium and TPFL Databases;

Mattiske – Mattiske (2000);

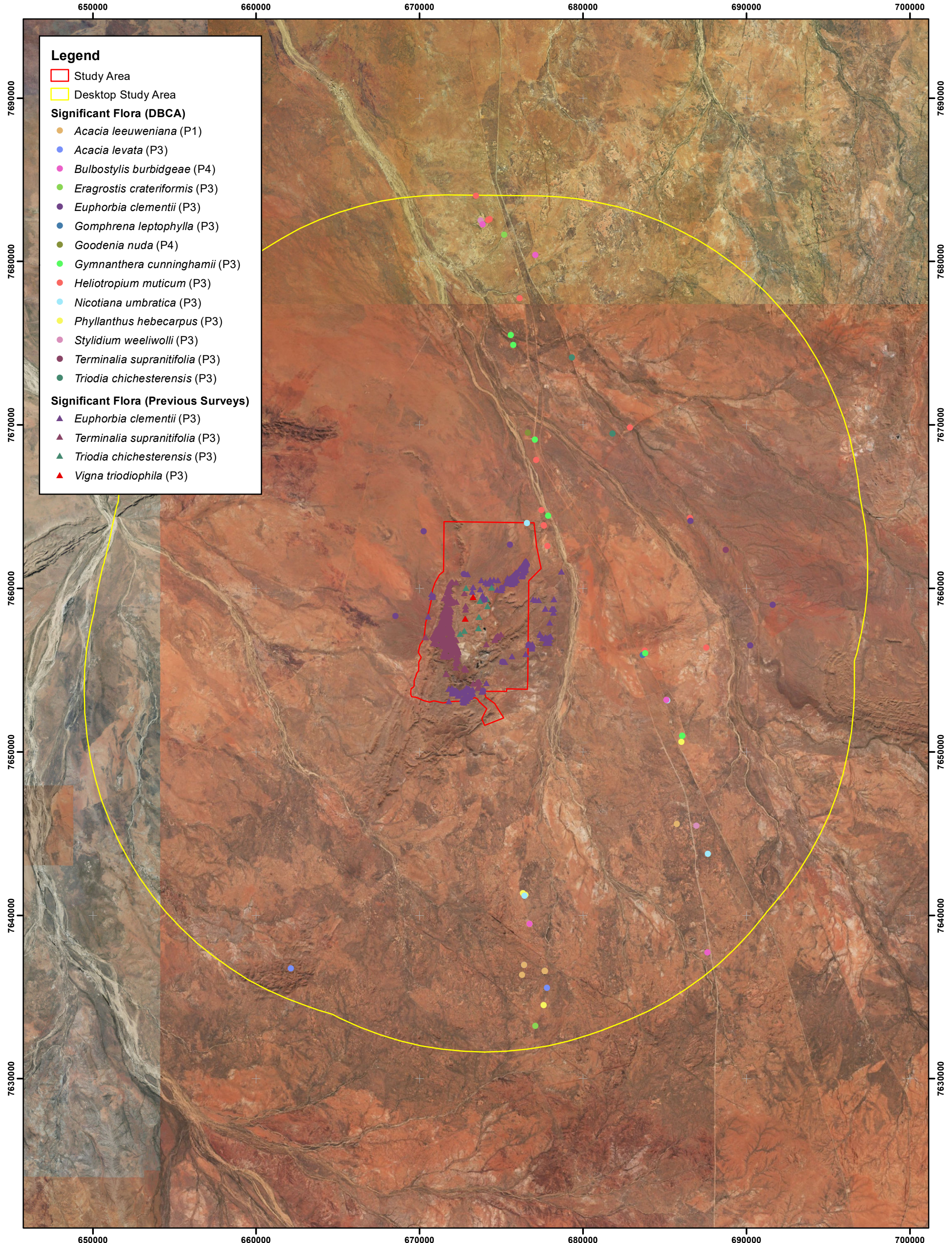
NatureMap – (DBCA 2007-);

Outback Ecology – Outback Ecology (2008; 2009);

Western Botanical – Western Botanical (2017);

Woodman Environmental – Woodman Environmental (2011a; 2011b; 2012b; 2012c; 2013a; 2013b); and

360 Environmental – 360 Environmental (2018a; 2018b; 2018c; 2018d)



This map should only be used in conjunction with WEC report MRL19-40-04.



**Desktop Study Area
Significant Flora Records**

Revision 0: 4 Apr 2020

Scale: 1:200,000 (A3)

Author: David Coultas

WEC Ref: MRL19-40-04

Filename: MRL19-40-04-f09.mxd

Projection: GDA 1994 MGA Zone 50

Figure

9

5.1.5 Summary of Introduced Flora

A list of introduced flora taxa known from within the Study Area and surrounds is presented in Table 6. The information presented has been compiled from the DBCA *NatureMap* search (DBCA 2007-), DoEE's SPRAT Database (DoEE 2019) and the results of local surveys as outlined in Section 5.1.3.

A total of 12 introduced taxa are known to occur in or within the vicinity of the Study Area. Of these, *Calotropis procera* is a Declared Pest listed (DPIRD 2019), and *Opuntia stricta* is a Declared Pest and a listed WoNS (AWC 2019; DPIRD 2019) (see Section 5.1.2).

Table 6: Introduced Flora Taxa Known from the Study Area and Surrounds

Taxon	Common Name	Source*
<i>Aerva javanica</i>	Kapok Bush	Mattiske; <i>NatureMap</i> ; Outback Ecology; Western Botanical; Woodman Environmental; 360 Environmental
<i>Calotropis procera</i>	Calotrope	<i>NatureMap</i> ; 360 Environmental
<i>Cenchrus ciliaris</i>	Buffel Grass	DoEE; Mattiske; <i>NatureMap</i> ; Outback Ecology; Western Botanical; Woodman Environmental; 360 Environmental
<i>Chloris barbata</i>	Purpletop Chloris	Western Botanical
<i>Cynodon dactylon</i>	Couch	Woodman Environmental
<i>Cyperus rotundus</i>	Nut Grass	360 Environmental (recorded <i>Cyperus? rotundus</i>)
<i>Flaveria trinervia</i>	Speedy Weed	Woodman Environmental
<i>Passiflora foetida</i> var. <i>hispida</i>	Stinking Passion Flower	Outback Ecology; Western Botanical; Woodman Environmental; 360 Environmental
<i>Physalis angulata</i>	Wild Gooseberry	Western Botanical
<i>Opuntia stricta</i>	Common Prickly Pear	<i>NatureMap</i>
<i>Sagina apetala</i>	Annual Pearlwort	Mattiske
<i>Trianthema portulacastrum</i>	Giant Pigweed	<i>NatureMap</i> ; Woodman Environmental

*Sources are:

DoEE – DoEE (2019);

Mattiske – Mattiske (2000);

NatureMap – DBCA (2007-);

Outback Ecology – Outback Ecology (2008; 2009);

Western Botanical – Western Botanical (2017);

Woodman Environmental – Woodman Environmental (2011a; 2011b; 2012b; 2012c; 2013a; 2013b); and

360 Environmental – 360 Environmental (2018a; 2018b; 2018c; 2018d).

5.1.6 Summary of Significant Vegetation

No listed significant vegetation is known to occur in or within the vicinity of the Study Area based on searches of the DBCA TEC and PEC databases (DBCA 2019c), DBCA *NatureMap* (DBCA 2007-), DoEE's SPRAT Database (DoEE 2019) and the results of local surveys as outlined in Section 5.1.3.

5.2 Field Survey

5.2.1 Flora

5.2.1.1 Vascular Flora Census

A total of 267 discrete vascular flora taxa (including eight introduced taxa), two known hybrids (as per WA Herbarium (1998-)) and five putative hybrids were recorded during the 2018/2019 surveys within the Study Area. The taxa and hybrids represent 51 families and 130 genera. The most well-represented families were Fabaceae (49 taxa, two known hybrids and five putative hybrids), Poaceae (46 taxa) and Malvaceae (23 taxa).

Within quadrats established in 2018/2019, the average taxon richness per quadrat was 22.58 (\pm 11.97), with the greatest number of taxa recorded in a single quadrat being 68 (WDM25) and the lowest being seven (WD48, WDM21 and WDM11).

A total of 300 discrete vascular flora taxa (including 11 introduced taxa), three known hybrids (as per WA Herbarium (1998-)) and seven putative hybrids have been recorded in the Study Area during the 2018/2019 surveys and relevant previous surveys within the Study Area, including Western Botanical (2017) and Woodman Environmental (2011a; 2011b; 2013a; 2013b; 2013c). These taxa and hybrids represent 52 families and 138 genera. The most well-represented families were Fabaceae (55 taxa, three known hybrids and seven putative hybrids), Poaceae (51 taxa) and Malvaceae (26 taxa).

Average taxon richness per quadrat across all quadrats utilised in the analysis was 24.76 (\pm 13.0), with the greatest number of taxa recorded in a single quadrat being 70, and the lowest number being seven.

A full list of taxa recorded within the Study Area is presented in Appendix F.

Several collections could not be identified to species level because of poor material. Some are known to be distinct taxa relative to other taxa recorded by the survey – these are included in the totals presented above, and in Appendix F (e.g. *Maireana* sp.). Other collections may represent distinct taxa relative to other taxa recorded by the survey; however it is more likely that they represent taxa already recorded elsewhere, with the quality of the material such that this distinction cannot be made (e.g. *Acacia* sp.). Such collections are not included in the totals above.

A total of two taxa (*Cajanus cinereus* and *Eriachne ciliata*) recorded during previous surveys of the Study Area (Woodman Environmental 2012c) were not included in the taxon counts above, or in Appendix F. *Cajanus cinereus* is apparently very similar to *Cajanus pubescens*, a taxon identified by this current survey, with available information indicating that these taxa differ only in quantitative flora attributes (WA Herbarium 1998-). Further study of these taxa may elucidate qualitative differences; however, in the meantime these taxa have been combined under the name *Cajanus pubescens*, as often plants are observed without flowering material and cannot be ascribed to either taxon. *Eriachne ciliata* is considered unlikely to occur in the Study Area, with records of this species likely referable to the recently established name *Eriachne* sp. Dugald River (B.K. Simon+ 3007), which was

recorded by this current survey. However, this cannot be verified for all records without collection of material at each record.

It should be noted that taxa from Western Botanical (2017) have not been verified by Woodman Environmental. Taxa from the 2018/2019 surveys with incomplete identifications were not included in the total taxa tally described above, and nor were an additional seven taxa listed by Western Botanical (2017) (*Acacia victoriae*, *Euphorbia coghlanii*, *Euphorbia drummondii*, *Heliotropium ovalifolium*, *Melaleuca lasiandra*, *Polymeria lanata* and *Swainsona pterostylis*) which are considered likely to be misidentifications based on knowledge of their distributions in the Pilbara (Woodman Environmental field observations) and their similarity to other taxa recorded by Woodman Environmental in the Study Area. As outlined above, *Cajanus cinereus* and *Eriachne ciliata* are likely to be synonymous with *Cajanus pubescens* and *Eriachne* sp. Dugald River (B.K. Simon+ 3007) respectively; they have therefore not been included as additional taxa or included in Appendix F. In addition, taxa were not included from the following surveys:

- Mattiske (2000); Outback Ecology (2008; 2009) – data unverifiable;
- 360 Environmental (2018a; 2018b) – surveys included areas (and taxa) outside Study Area; and
- 360 Environmental (2018c) – full list of taxa not presented in report or appendices.

5.2.1.2 Significant Flora Taxa

Table 7 presents a summary of data relating to significant flora taxa recorded in the Study Area. A total of six significant flora taxa have been recorded from the Study Area by this current survey and previous surveys, including five Priority flora taxa (discussed in Section 5.2.1.3) and one taxon considered significant for other reasons as per EPA (2016a; 2016b) (discussed in Section 5.2.1.5). No Threatened flora taxa were recorded within the Study Area.

As noted in Section 5.1.4, *Nicotiana umbratica* (P3) is known to occur within the Study Area, with a single WA Herbarium record (DBCA 2019d) in the north-eastern corner of the Study Area (Figure 9). However, investigation of this record indicates that this record has erroneous coordinates. The locality description attached to the record notes that it is from the “Road to Nullagine, 2-5 km from junction with Great Northern Highway”. Although this description is fairly vague, it is certainly not within the Study Area. Notwithstanding this, in the general vicinity of the Study Area, *Nicotiana umbratica* is restricted to overhangs and cracks in granite boulders (Woodman Environmental field observations; WA Herbarium 1998-); this habitat does not occur at the coordinates of the record. This taxon is therefore not considered to occur within the Study Area.

Locations of significant flora taxa recorded in the Study Area are presented in Appendix G, Figure 10 and in Appendix H. Detailed descriptions of these taxa are provided below.

Table 7: Summary of Significant Flora Taxa Recorded within the Study Area

Taxon	Status	No. of Locations Recorded			No. of Individuals Recorded			Vegetation Units
		Study Area		Total	Study Area		Total	
		2018/2019*	Previous Surveys**		2018/2019*	Previous Surveys**		
<i>Abutilon aff. hannii</i>	Potentially undescribed	7	NR	7	51	NR	51	9, 14 [^]
<i>Euphorbia clementii</i>	P3	181	171	352	60,044	1,739	61,783	1, 2 [^] , 4, 5, 6, 7, 9 [^] , 10 [^] , 11 [^] , 12, 13, 14
<i>Heliotropium muticum</i>	P3	1	NR	1	20	NR	20	1 [^]
<i>Terminalia supranitifolia</i>	P3	339	750	1,089	1,241	1,062	2,303	2, 3, 4 [^] , 5, 7, 8, 9 [^] , 14
<i>Triodia chichesterensis</i>	P3	1,955	3	1,958	1,968,600	NR	1,968,600	1, 2, 4 [^] , 5 [^] , 6 [^] , 7 [^] , 8 [^] , 9 [^] , 10, 11, 12 [^] , 13, 14
<i>Vigna triodiophila</i>	P3	167	2	169	2,482	NR	2,482	2, 7, 9 [^] , 14

*Includes significant flora data with some locations collected directly outside the Study Area as a result of surveys for the Project.

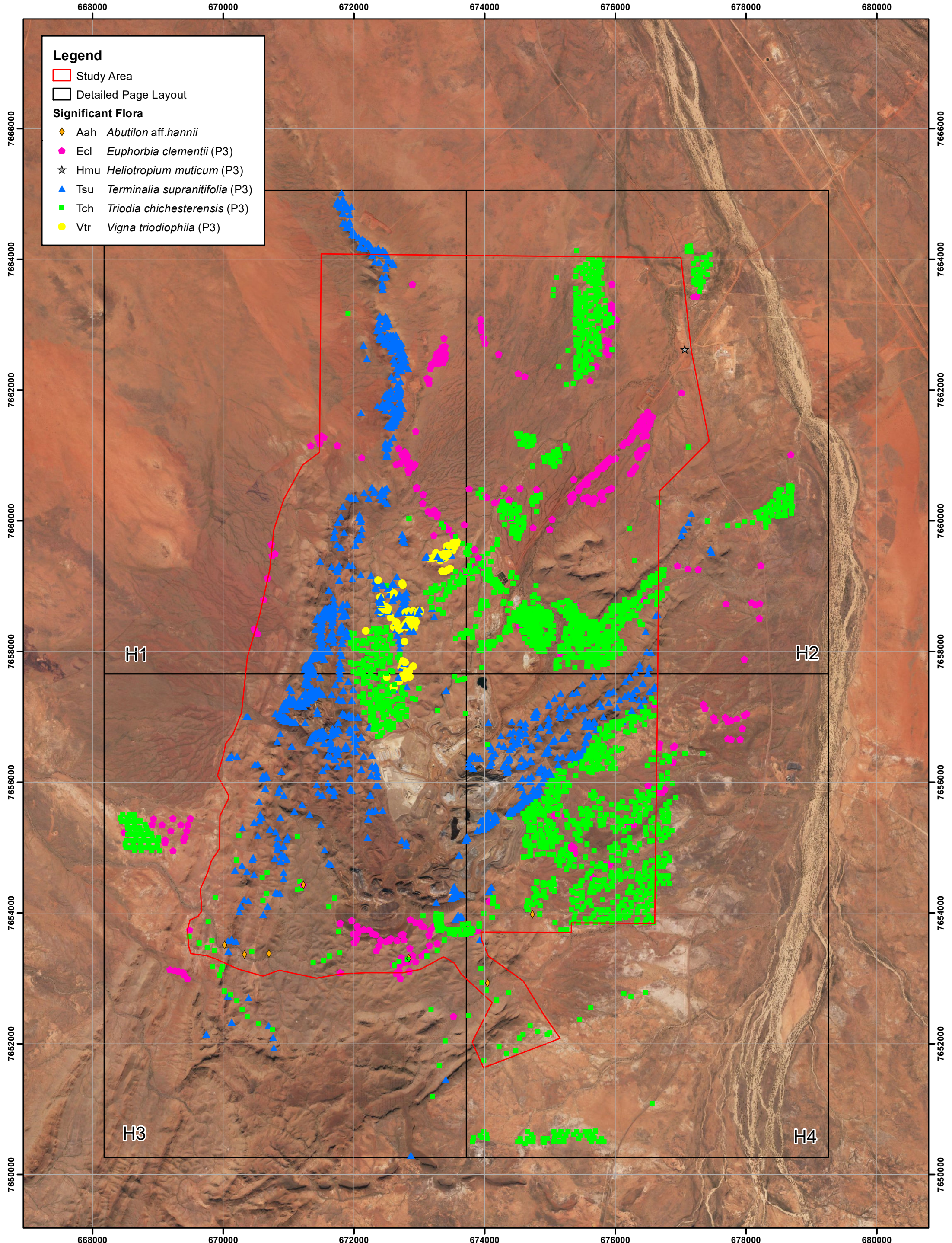
**Includes significant flora data with locations in the Study Area from surveys: Woodman Environmental (2011a; 2011b; 2012b; 2013a; 2013b); Outback Ecology (2009).

NR = Not recorded.

[^]Designates preferred habitat, based on proportional location representation and landforms/soils.

Significant flora data not included from the following surveys:

- Mattiske (2000) – data outdated;
- Western Botanical (2017) – no location data presented in report or appendices; and
- 360 Environmental (2018a; 2018b; 2018c) – no location data presented in report or appendices.



Legend

- Study Area
- Detailed Page Layout

Significant Flora

- ◆ Aah *Abutilon aff.hannii*
- ◆ Ecl *Euphorbia clementii* (P3)
- ★ Hmu *Heliotropium muticum* (P3)
- ▲ Tsu *Terminalia supranitifolia* (P3)
- Tch *Triodia chichesterensis* (P3)
- Vtr *Vigna triodiophila* (P3)

H1

H2

H3

H4



Overview of Significant Flora Locations

Author: David Coultas
 WEC Ref: MRL19-19-04
 Filename: MRL19-19-04-f10.mxd
 Projection: GDA 1994 MGA Zone 50

Figure
 10

This map should only be used in conjunction with WEC report MRL19-19-04.

Revision: 0 - 4 Apr 2020

Scale: 1:50,000 (A3)

5.2.1.3 Listed Significant Flora Taxa

Euphorbia clementii (P3)

Euphorbia clementii (P3) is an erect herb growing to 0.6 m high, that occurs on stony plains, and often within sandy flow lines that dissect such plains (Woodman Environmental field observations; WA Herbarium 1998-) (Plate 3). This taxon appears to be endemic to the Abydos Plain in northern part of the Pilbara region of Western Australia (ALA 2019), occurring over a range of 300 km from near Port Hedland in the west to Woodie Woodie in the east. There is a single disjunct record much further south near the southern corner of Karijini National Park (near West Angelas Iron Ore mine), however this is not represented by a WA Herbarium collection and therefore requires verification (DBCA 2007-).

There are 35 records of this taxon in DBCA's databases representing approximately 25 populations (including the population in the Study Area, none of which occur in DBCA-managed tenure (DBCA 2007-). The population of this taxon in the Study Area is located on the western edge of the known range of this taxon.

This taxon is known to occur widely across the Study Area (Figure 10). A total of 60,044 individuals of *Euphorbia clementii* were recorded at 181 point locations in the Study Area during surveys in 2018/2019 (Table 7; Appendix G). In total, 352 point locations consisting of 61,783 individuals have been recorded within the Study Area (including some locations just outside the Study Area boundary). However, there are no extant plants at many locations because of time since fire – this is discussed further below. These are considered to represent a single population. These locations occur within VUs 1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 13 and 14, with VUs 2, 9, 10 and 11 considered to represent the preferred habitat for this taxon (Appendix H).

Euphorbia clementii had previously been recorded at numerous locations within the Study Area (Woodman Environmental 2012c; 2013a). This taxon is well known to occur almost exclusively in areas that have been recently burnt (Woodman Environmental field observations). Almost all individuals previously recorded in the Study Area were recorded in areas known to have been burnt within the previous 12 months (Woodman Environmental field observations). Indeed, the majority of individuals of *Euphorbia clementii* recorded by the 2018/2019 survey occurred in a single small sandy flat area in the northern part of the Study Area that had been burnt within a few months of the survey being conducted, while only widely scattered individuals were recorded in unburnt areas. Similarly, outside the Study Area, almost all *Euphorbia clementii* plants recorded in 2018/2019 were located in recently burnt areas. Although a significant number of individuals were recorded in these recently burnt areas, very few individuals were recorded elsewhere within unburnt areas that were the subject of targeted survey, despite almost identical habitat to the aforementioned burnt area being present elsewhere.

The relative absence of individuals in areas that were the subject of targeted survey is therefore considered to be the result of such areas not being recently burnt, rather than individuals either not occurring or being overlooked by the targeted surveys. This was reinforced following a visit in 2019 to several locations where this taxon had been recorded in 2018 in recently burnt areas, where hundreds of plants had been observed. At two

locations, no plants could be located in 2019, while at the third only a few unhealthy individuals were found. It is probable that most individuals of this species do not live beyond 12 months post-fire.



Plate 3: *Euphorbia clementii* (P3) (Woodman Environmental 2018)

***Heliotropium muticum* (P3)**

Heliotropium muticum (P3) is an ascending to spreading perennial herb growing to 0.3 m high, and generally occurs on coarse sandy plains and flats (WA Herbarium 1998-) (Plate 4). This taxon appears to be endemic to the Abydos Plain in northern part of the Pilbara region of Western Australia (ALA 2019), occurring over a range of approximately 240 km from near Marble Bar in the east to Whim Creek (west of Port Hedland) in the west (DBCA 2007-).

There are 73 records of this taxon in DBCA's databases representing approximately 32 populations (not including the population in the Study Area), none of which occur in DBCA-managed tenure (DBCA 2007-). The Study Area is located within the known range of this taxon.

This taxon is restricted in distribution in the Study Area (Figure 10), with a total of 20 individuals recorded at one point location in the Study Area during surveys in 2018/2019. This location occurs in VU 1 (Table 7; Appendix H). Extensive survey for this taxon has not located it elsewhere in the Study Area; this was expected, as this species is known to be far more common on the granite-derived coarse sandy plains to the east of the Study Area (Woodman Environmental field observations). *Heliotropium muticum* is typically recorded following recent fire and, like *Euphorbia clementii*, is short-lived. It is possible that further potential habitat is present within the Study Area where plants would reappear following fire or disturbance, however, this is not considered likely.



Plate 4: *Heliotropium muticum* (P3) (Photos: Woodman Environmental 2018)

***Terminalia supranitifolia* (P3)**

Terminalia supranitifolia (P3) is a spreading, tangled shrub or tree growing to 3 m high, and generally occurs on rock outcrops, cliffs and breakways (WA Herbarium 1998-) (Plate 5). This taxon is endemic to the northern part of the Pilbara region of Western Australia (ALA 2019), occurring over a range of approximately 275 km from Kangan Station in the east to near Pannawonica in the west (DBCA 2007-).

There are 56 records of this taxon in DBCA's databases, representing approximately 10 populations (including the population in the Study Area), two of which occur in DBCA tenure including Murujunga National Park (on Burrup Peninsula) and Dolphin Island Nature Reserve (DBCA 2007-). The majority of records of this taxon (including nine of the 10 populations) occur over 190 km west of the Study Area. The other locality (consisting of four records) is within the Study Area itself (one locality has erroneous coordinates and plots outside the Study Area but is known to have been collected within the Study Area by Woodman Environmental). The Study Area population is therefore the eastern-most known occurrence of this taxon.

This taxon occurs widely across the Study Area (Figure 10), with a total of 1,241 individuals recorded at 339 point locations in the Study Area (including a number just outside the Study Area) during surveys in 2018/2019 (Table 7; Appendix G). In total, 1,089 point locations consisting of 2,303 individuals have been recorded within the Study Area (including some locations just outside the Study Area boundary). These are considered to represent a single population. The locations occur within VUs 2, 3, 4, 5, 7, 8, 9 and 14, of which VUs 4 and 9 are considered to represent preferred habitat for this taxon (Appendix H).



Plate 5: *Terminalia supranitifolia* (P3) (Photos: Woodman Environmental 2012)

***Triodia chichesterensis* (P3)**

Triodia chichesterensis (P3) is a hummock grass growing to 0.4 m high, that generally occurs on stony plains and low stony ridges (usually calcrete or quartz-derived) (WA Herbarium 1998-) (Plate 6). This taxon appears to be endemic to the Abydos Plain in northern part of the Pilbara region of Western Australia (ALA 2019), occurring over a range of approximately 91 km from north of Indee Station (south of Port Hedland) in the north to east of Mungaroon Nature Reserve in the south (DBCA 2007-).

There are 13 location records of this taxon in DBCA's databases, representing approximately nine populations (not including the Study Area), none of which occur in DBCA tenure (DBCA 2007-). Although the Study Area is located on the edge of the known range of this taxon (as provided on *NatureMap*; DBCA 2007-), this taxon was previously collected from Wodgina as *Triodia* aff. *basedowii* prior to the formal description of this taxon (Table 4).

This taxon occurs widely across the Study Area (Figure 10). A total of 1,968,600 individuals of *Triodia chichesterensis* were recorded at 1,955 point locations in the Study Area during surveys in 2018/2019 (Table 7; Appendix G). A further three locations of this taxon were recorded by previous surveys, with counts of individuals not made. These are considered to represent a single population. These locations occur within VUs 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, of which 4, 5, 6, 7, 8, 9, and 12 are considered to be preferred habitat for this taxon (Appendix H).

Both *Triodia chichesterensis* and *Triodia scintillans*, a very superficially similar and closely related taxon (Anderson *et al.* 2017), were recorded during surveys in 2018. However, it was noted that additional material was required to conclusively determine whether one or both

were present in the Study Area (Woodman Environmental 2019). A number of collections of what were considered to be these taxa were made during 2019, with representative specimens sent to the WA Herbarium for identification. The WA Herbarium advised that all collections represent *Triodia chichesterensis* on account of lemma morphology, as well as the locality of the collections (M. Hislop *pers. comm.* 2019). The presence of 'sparkling droplets' on all specimens is somewhat at variance for this taxon, as it is not mentioned in its taxonomic description ; this was the primary reason that material collected in 2018 was identified as *Triodia scintillans*, which characteristically has 'sparkling droplets' (Anderson *et al.* 2017). However, there is a paucity of collections of *Triodia chichesterensis* at the WA Herbarium, and some do possess some sparkling droplets (M. Hislop *pers. comm.* 2019), indicating that this character may be somewhat variable, possibly depending on the level of drought stress.

Triodia chichesterensis primarily occurs on low dolerite hills and outwashes where calcrete has developed that surround the main range at Wodgina, and was recorded as dominating the ground stratum in most locations where it was present (Plate 6). The count of individuals recorded during the 2018/2019 survey can only be considered an indication of the abundance of the taxon in this area, with the recorded locations providing an overview of the distribution of this taxon throughout the Study Area.



Plate 6: *Triodia chichesterensis* (P3) (Photos: Woodman Environmental 2018)

***Vigna triodiophila* (P3)**

Vigna triodiophila (P3) is a perennial (ephemeral stems arising from a persistent woody rootstock) climber that occurs on rocky hills, slopes and outcrops among boulders (WA Herbarium 1998-) (Plate 7). This taxon appears to be endemic to the northern Pilbara in Western Australia (ALA 2019), with current DBCA records indicating it has a range of approximately 60 km from Burrup Peninsula (north of Karratha) in the north to near Lake Poongkaliyarra (south of Roebourne) in the south (DBCA 2007-). However, this taxon has

previously been recorded in the Study Area (Woodman Environmental 2012c), which extends its distribution to 205 km. The collection of this taxon was forwarded to the WA Herbarium for lodgement but was rejected because it was sterile.

There are 12 location records of this taxon in DBCA's databases, representing approximately six populations, with the Study Area representing an additional population. One population occurs in Murujunga National Park (on Burrup Peninsula) (DBCA 2007-). The Study Area population is therefore the eastern-most known occurrence of this taxon.

This taxon is relatively restricted in distribution in the Study Area (Figure 10). A total of 2,482 individuals of *Vigna triodiophila* were recorded at 167 point locations during surveys in 2018/2019 (Table 7; Appendix G; Appendix H). As noted above, it was recorded in the Study Area previously (two point locations), however, individuals were not counted. These locations occur within VUs 2, 7, 9 and 14, of which VU 9 is considered to be preferred habitat for this taxon (Appendix H).



Plate 7: *Vigna triodiophila* (P3) habit and typical position in landscape (Photos: Woodman Environmental 2019)

5.2.1.4 Unlisted Significant Flora Taxa

Abutilon aff. *hannii*

A collection was made within the Study Area of an entity that has previously been identified by a specialist taxonomist at the WA Herbarium as *Abutilon* aff. *hannii*.

This entity matches a small number of collections from the Pilbara Bioregion, one of which is currently lodged as *Abutilon hannii*. However, these collections differ significantly in indumentum characters from all other *A. hannii* collections in the WA Herbarium (all of which are from the Kimberley Bioregion). Although there has been speculation as to

whether these collections may represent introgression between *A. macrum* and *A. hannii*, this was considered to be very unlikely given that typical *A. hannii* does not occur near the Pilbara. Therefore, this entity potentially represents an undescribed taxon. The genus *Abutilon* is currently under active revision and this taxon may fall within the concept of a described taxon upon publication of this revision (M. Hislop *pers. comm.* 2014, 2016). However, as a precaution, and given that it appears to occur in relatively specific habitat (rocky drainage lines) and is apparently not common, this entity is considered to be a significant taxon as per EPA (2016a).

This entity is relatively restricted in the Study Area (Figure 10), with a total of 51 individuals recorded at seven point locations in the Study Area during surveys in 2018/2019 (Table 7; Appendix G). These locations are all located within rocky drainage lines mapped as VU 14, with one location in a smaller drainage line mapped as VU 9; VU 14 is considered to represent the preferred habitat for this taxon (Appendix H). This entity has also been recorded nearby during surveys for the Corunna Project (Woodman Environmental 2016), McPhee Creek Rail Project (Woodman Environmental 2014a), Abydos DSO Project (Woodman Environmental 2012a) and Mt Webber DSO Project (Woodman Environmental 2012d), with few locations and low plant numbers recorded.



Plate 8: *Abutilon aff. hannii* (Woodman Environmental)

5.2.1.5 Other Flora Taxa of Interest

Polygala aff. saccopectala

A collection identified as *Polygala aff. saccopectala* was made in the Study Area as part of the GNH Upgrade Project (Woodman Environmental 2013c). This entity has historically been identified as *Polygala longifolia*, however a revision of *Polygala* indicates that *Polygala longifolia* does not occur in the Pilbara. The same entity has been collected at two other nearby locations in the vicinity of Port Hedland (WA Herbarium 1998-), in the same sandy, granite-derived plain habitat that the collection in the Study Area was made from. It was also recorded at a further six locations in the GNH Upgrade Project survey area (Woodman Environmental 2013c).

Although this entity is of taxonomic interest, and may represent an undescribed species, its recording at a number of locations in a widespread habitat, albeit over a relatively restricted range, and past confusion with *Polygala longifolia*, indicates that it is unlikely to be of significance as per EPA (2016a). In any case, it appears to be restricted to the very eastern margin of the Study Area where some coarse granite-derived sandy plain habitat occurs, as no collections of this taxon were made in 2018 or 2019.

5.2.1.6 Distribution Extensions and Distribution Gaps

Table 8 presents taxa where the collections of flora taxa from the Study Area represent extensions to the known distribution of such taxa or otherwise fill gaps within the known distribution of such taxa according to *NatureMap* (DBCA 2007-). With respect to significant flora taxa, populations in the Study Area occur within the known range of the taxa, however several form the edge of the known range of the taxon (e.g. *Terminalia supranitifolia* (P3), *Vigna triodiophila* (P3).

Table 8: Taxa Where Collections Represent Range Extensions to the Known Ranges of these Taxa or Fill Distribution Gaps (DBCA 2007-)

Taxon	Description
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	Fills gap in known distribution
<i>Cheilanthes contigua</i>	Fills gap in known distribution
<i>Goodenia cusackiana</i>	Fills gap in known distribution
<i>Triumfetta clementii</i>	Fills gap in known distribution
<i>Velleia connata</i>	Fills gap in known distribution

5.2.1.7 Likelihood of Occurrence of Further Significant Flora Taxa

As detailed in Section 5.1.4, a total of 15 listed significant flora taxa were identified prior to the 2018/2019 survey as occurring within or in the vicinity of the Study Area. Of these, four taxa were already known to occur within the Study Area (Table 5) and one was recorded in the Study Area for the first time during the 2018/2019 surveys (*Heliotropium muticum* (P3)). It is considered that the remaining 10 taxa were identifiable during the survey period, either because the survey period coincided with the taxon's flowering period or the taxon can be identified reliably when in fruit or sterile. As such, the likelihood of these taxa occurring in the Study Area is considered to be relatively low.

It is considered that three Priority flora taxa could potentially occur in the Study Area as suitable habitat may be present in the Study Area. These are indicated in Table 9. The remaining 7 taxa are considered unlikely to occur in the Study Area, primarily because suitable habitat is not considered to be present in the Study Area (Table 9). In terms of taxa with habitats of granite outcrops, there are small areas of granite outcrops present in the Study Area but these areas are not sufficiently large enough to support these taxa, a number of which occur in cracks and under overhangs of large granite outcrops. Likewise, there are minor drainage areas within the Study Area but none of these are substantial enough to support *Gymnanthera cunninghamii* (P3).

Table 9: Likelihood of Occurrence of Significant Flora Taxa in the Study Area

Taxon	Status	Flowering Period (WA Herbarium 1998-)	Habitat (WA Herbarium 1998-)	Nearest Known Location to Study Area (DBCA 2007-)	Identifiable During Survey?	Likelihood of Occurrence in Study Area
<i>Acacia leeuweniana</i>	P1	Not specified	Large granite outcrops	12 km south-east	Yes	Unlikely – habitat not known to be present
<i>Acacia levata</i>	P3	Not specified	Granite plains, granite hills and outcrops	15 km south	Yes	Unlikely – habitat not known to be present
<i>Bulbostylis burbidgeae</i>	P4	March or June to August	Large granite outcrops	9 km east	Yes	Unlikely – habitat not known to be present
<i>Eragrostis crateriformis</i>	P3	February to August	Drainage lines and clay pans	17 km north	Yes	Possible – not recorded by this survey or previous surveys. Potential habitat present
<i>Gomphrena leptophylla</i>	P3	March to September	Floodplains, drainage lines and flats	8 km east	Yes	Possible – not recorded by this survey or previous surveys. Potential habitat present
<i>Goodenia nuda</i>	P4	March to July	Plains, flats and drainage lines	6 km north	Yes	Possible – not recorded by this survey or previous surveys. Potential habitat present
<i>Gymnanthera cunninghamii</i>	P3	January to December	Major drainage lines	< 1 km north	Yes	Unlikely – habitat not known to be present
<i>Nicotiana umbratica</i>	P3	April to June	Large granite outcrops	< 1 km north	Yes	Unlikely – habitat not known to be present
<i>Phyllanthus hebecarpus</i>	P3	Not specified	Large granite outcrops	10 km south south-east	Yes	Unlikely – habitat not known to be present
<i>Stylidium weeliwolli</i>	P3	March to October	Drainage lines, seepage areas on granite outcrops and edges of pools. Damp soil.	13 km south-east	Yes	Unlikely – habitat not known to be present

5.2.1.8 Introduced Taxa

A total of 11 introduced flora taxa are known from the Study Area, eight of which were recorded within the Study Area during the 2018/2019 surveys. Table 10 lists location information and comments regarding the significance of these taxa, including ecological impact and invasiveness ratings for each introduced taxon under the *Invasive Plant Prioritization Process for the DBCA* for the Pilbara Region (DBCA 2014). Note that *Calotropis procera* is a Declared Pest under the BAM Act (DPIRD 2019). No WoNS were recorded in the Study Area. An overview of locations of introduced flora taxa are presented on Figure 11, with detailed locations presented on Appendix G.

Table 10: Summary of Introduced Taxa Recorded within the Study Area

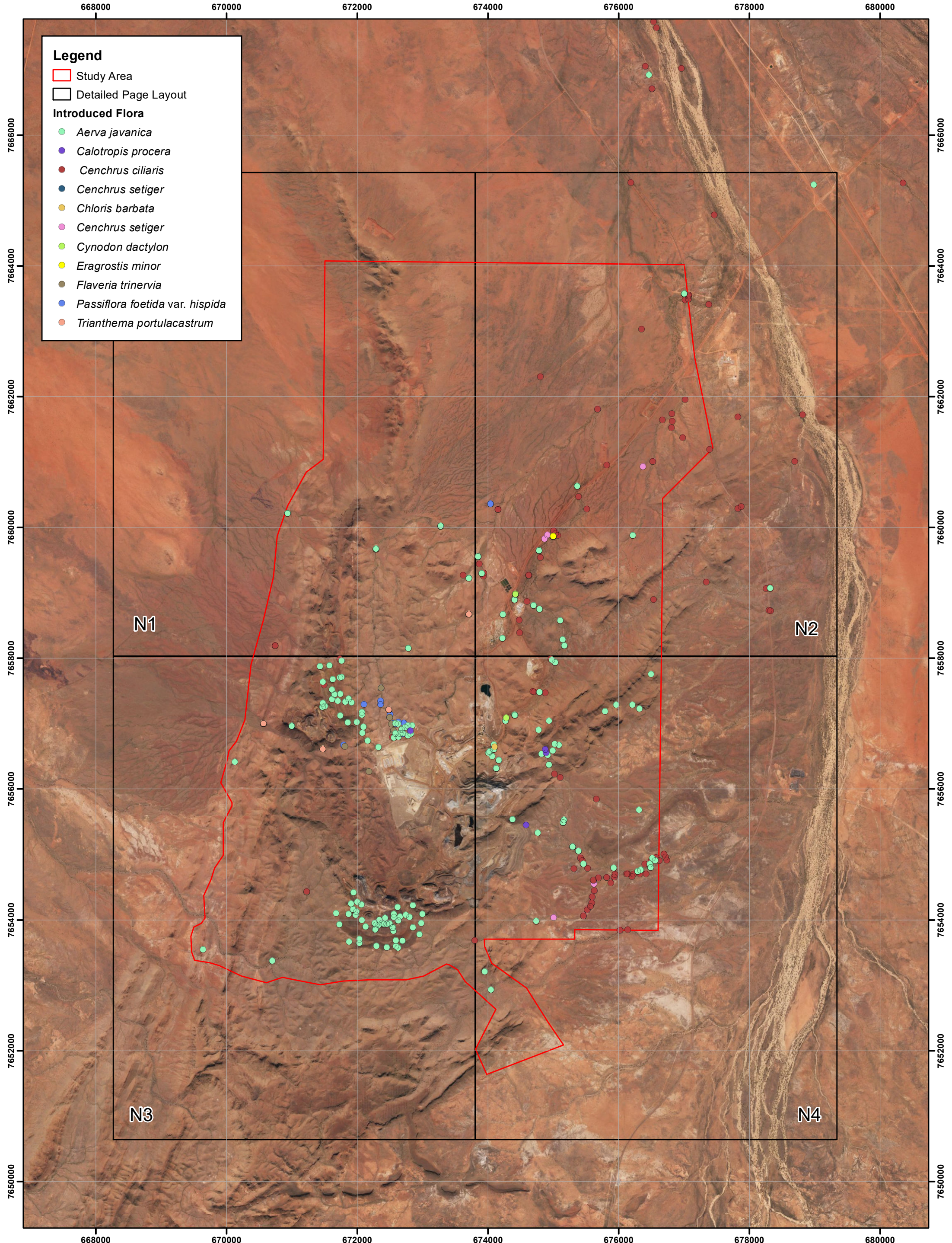
Taxon	Common Name	No. of Locations within the Study Area			Comments
		2018/2019	Previous Surveys*	Total	
<i>Aerva javanica</i>	Kapok	56	32	88	Ecological impact rated High, invasiveness rated Rapid (DBCA 2014)
<i>Calotropis procera</i>	Calotrope	3	1	4	Declared Pest (DPIRD 2019); Priority alert weed (DBCA 2014)
<i>Cenchrus ciliaris</i>	Buffel Grass	94	22	116	Considered by the States and Territories of Australia to pose a particularly significant threat to biodiversity (DoEE 2018a); Ecological impact rated High, invasiveness rated Rapid (DBCA 2014)
<i>Cenchrus setiger</i>	Birdwood Grass	28	0	28	Ecological impact rated High, invasiveness rated Rapid (DBCA 2014)
<i>Chloris barbata</i>	Purpletop Chloris	1	0	1	Ecological impact rated High, invasiveness rated Rapid (DBCA 2014)
<i>Cynodon dactylon</i>	Couch	1	1	2	Ecological impact rated High, invasiveness rated Rapid (DBCA 2014)
<i>Eragrostis minor</i>	Smaller Stinkgrass	0	1	1	Not rated by DBCA (2014)
<i>Flaveria trinervia</i>	Speedy Weed	3	9	12	Not rated by DBCA (2014)
<i>Passiflora foetida</i> var. <i>hispida</i>	Stinking Passionflower	3	16	19	Ecological impact rated High, invasiveness rated Rapid (DBCA 2014)
<i>Physalis angulata</i>	Wild Gooseberry	0	Recorded but number not specified^	-	Ecological impact and invasiveness Unknown (DBCA 2014)
<i>Trianthema portulacastrum</i>	Giant Pigweed	0	4	4	Not rated by DBCA (2014)

^Recorded by Western Botanical (2017); however, number of locations not specified.

*Includes introduced flora data with locations in the Study Area from Woodman Environmental (2011a; 2012c; 2013a; 2013b; 2013c).

Introduced flora data not included from the following surveys:

- Mattiske (2000), Outback Ecology (2008; 2009) – data outdated;
- 360 Environmental (2018a; 2018b; 2018 c) – no location data presented in report or appendices.



This map should only be used in conjunction with WEC report MRL19-19-04.



**Overview of Introduced Flora Locations
in the Study Area**

Revision: 0 - 4 Apr 2020

Scale: 1:50,000 (A3)

Author: David Coultas

WEC Ref: MRL19-19-04

Filename: MRL19-19-04-f11.mxd

Projection: GDA 1994 MGA Zone 50

Figure

11

5.2.2 Vegetation

5.2.2.1 Floristic Classification Results

The PATN software package (Belbin and Collins 2009) initially suggested that a 17-cluster classification of quadrats may be appropriate for the Study Area quadrat data. The resulting dendrogram (Appendix I) and taxon group matrix were therefore initially examined at this level, to determine the plausibility of clusters with regard to taxon groups and also field observations.

This examination found that four clusters (three containing one quadrat in each; one containing two quadrats) were misclassified and did not represent distinct clusters; these quadrats were manually reassigned following detailed investigation of individual quadrat datasets (including soil, topography and taxon composition/dominant taxa), and examination of field notes and the taxon group matrix. Conversely, 2 clusters contained two obvious sub-grouping of quadrats; examination of these quadrats found that these subgroups were worthy of distinction as individual clusters. This resulted in 15 plausible clusters being identified, which are considered to represent VUs in the Study Area. These clusters are ordered from one to fifteen from top to bottom in the dendrogram (Appendix I).

It should be noted that the above investigations of quadrat clusters also identified 18 other quadrats that were considered to have been misclassified; often this appeared to be because the quadrats were established in vegetation that was transitional, was particularly species-poor, or had been recently burnt. These quadrats were also manually reassigned into more appropriate clusters based on taxon composition. These quadrats are detailed in Appendix I.

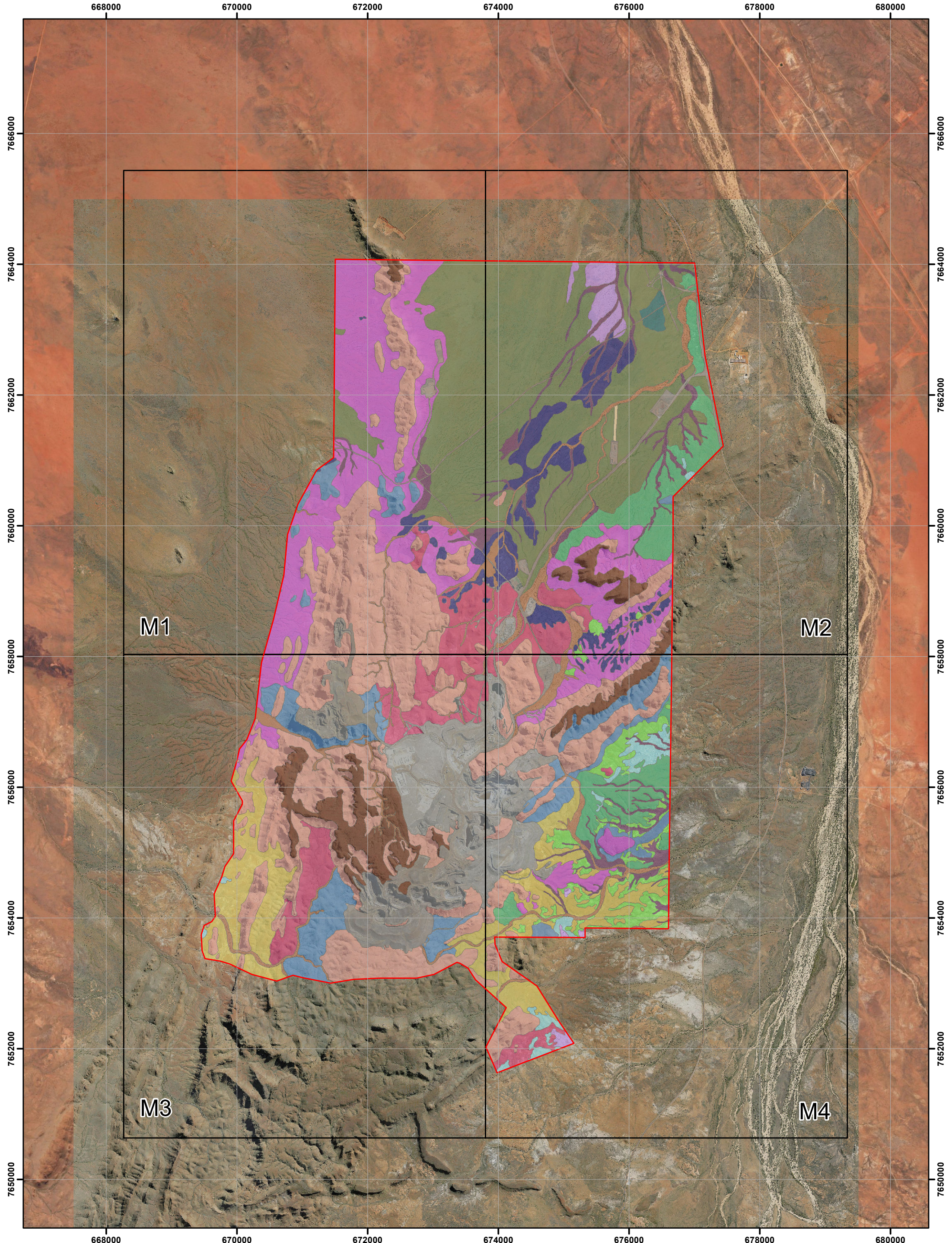
5.2.2.2 Vegetation Units

A total of 15 vegetation units (VUs) were defined and mapped based on the results of the floristic classification analysis and subsequent examination of quadrat data. The 15 VUs defined represent four broad groups of vegetation, based on soils and topography:

- Group 1: Shrublands over hummock grasslands on steep to moderate crests and slopes to stony outwash plains influenced by granite, ironstone and/or dolerite (VU 1, 2, 3, 4, 5, 6, 7, 8, 9).
- Group 2: Low woodlands and shrublands over hummock and occasionally tussock grasslands on low, undulating to flat plains and minor drainage lines with sandy to clay loams with granite or quartz stones (VU 10, 11, 12, 13).
- Group 3: Low woodlands and shrublands over hummock and tussock grassland on clay to sandy loams on major drainage lines (VU 14).
- Group 4: Shrublands over hummock grasslands on stony plains with saline influence (VU 15).

Figure 12 presents an overview of the distribution of these VUs throughout the Study Area. Table 11 presents a description of each of the VUs mapped in the Study Area, including location, area mapped, sampling regime, significant flora recorded, average taxon richness and a description of variation found within the VU. Indicator taxon analysis is presented in Appendix J. The raw quadrat data is presented in Appendix K.

Appendix L presents the resulting taxon-VU matrix. Appendix M presents the detailed vegetation unit mapping, with locations of quadrats.



This map should only be used in conjunction with WEC report MRL19-19-04.



**Overview of Vegetation Units
of the Study Area**

Revision: 0 - 4 Apr 2020

Scale: 1:50,000 (A3)

Author: David Coultas

WEC Ref: MRL19-19-04

Filename: MRL19-19-04-f12-0.mxd

Projection: GDA 1994 MGA Zone 50






Figure

12.0

Legend

 Study Area

Vegetation Units

-  1 Tall open to sparse shrubland dominated by *Acacia orthocarpa*, *A. ancistrocarpa* and occasionally *A. acradenia* over low sparse shrubland of mixed species dominated by *A. stellaticeps* over low hummock grassland dominated by *Triodia lanigera* and occasionally *T. epactia* on red-brown clay loam with granite, quartz or ironstone stones on colluvial stone plains and low flat-topped rises.
-  2 Tall to mid sparse shrubland of mixed species dominated by *Acacia acradenia*, *A. inaequilatera*, *Grevillea wickhamii* subsp. *hispidula* and occasionally *A. tumida* var. *pilbarensis* and *A. ancistrocarpa* over low sparse shrubland of mixed species including *Indigofera monophylla* and *Goodenia stobbsiana* over low hummock grassland dominated by *Triodia epactia* and/or *T. brizoides* on red, brown or red-brown clay loam with metamorphic, ironstone, quartz and occasionally granite stones, occasionally with metamorphosed granite or granite outcropping, on lower slopes and colluvial outwashes of ranges and occasionally on low flat-topped rises.
-  3 Low open woodland to isolated trees of *Eucalyptus leucophloia* subsp. *leucophloia* and/or *Corymbia hamersleyana* over tall to mid sparse to open shrubland dominated by *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula* and *A. tumida* var. *pilbarensis* over low sparse shrubland of mixed species including *Dampiera candidans*, *Indigofera monophylla*, *Goodenia stobbsiana* and *Triumfetta maconochieana* over low hummock grassland dominated by *Triodia epactia* and often *T. brizoides* or *T. wiseana* over low sparse tussock grassland dominated by *Eriachne mucronata* on red, brown or red brown clay loam with ironstone or metamorphosed granite stones over ironstone or metamorphosed granite outcropping on plateaus, crests and upper slopes of
-  4 Tall to mid sparse shrubland dominated by *Acacia inaequilatera*, *A. acradenia* and *Grevillea wickhamii* subsp. *hispidula* over low sparse shrubland of mixed species including *Corchorus parviflorus* and *Indigofera monophylla* over low hummock grassland dominated by *Triodia epactia* and/or *T. wiseana*, or occasionally *T. brizoides* and *T. chichesterensis*, on red, brown or red-brown clay loam with metamorphosed granite, dolerite and occasionally ironstone stones over metamorphosed granite or dolerite outcropping on mid and upper slopes of ranges, and low ridges and hills.
-  5 Tall to mid sparse shrubland of mixed species dominated by *Acacia acradenia*, *A. inaequilatera* and *A. orthocarpa* over low sparse shrubland of mixed species dominated by *Acacia spondylophylla* over low hummock grassland dominated by a combination of *Triodia chichesterensis*, *T. wiseana*, *T. epactia*, *T. brizoides* and *T. lanigera* on red-brown clay loam with metamorphosed granite, ironstone, dolerite, quartz and calcrete stones, occasionally over metamorphosed granite and dolerite outcropping, on lower slopes and colluvial outwashes of ranges and low flat-topped rises.
-  6 Low open woodland to isolated trees of *Corymbia hamersleyana* over tall to mid sparse shrubland dominated by *Acacia inaequilatera*, *A. acradenia* and *Grevillea wickhamii* subsp. *hispidula* over low hummock grassland dominated by *Triodia chichesterensis* and/or *T. wiseana* on brown or occasionally red clay loam with calcrete, quartz and metamorphosed granite stones, occasionally over calcrete outcropping, on colluvial outwashes of ranges and colluvial stony plains.
-  7 Tall to mid sparse shrubland of mixed species including *Acacia inaequilatera*, *Grevillea pyramidalis* subsp. *leucadendron* and *A. orthocarpa* over low hummock grassland dominated by *Triodia chichesterensis* and/or *T. wiseana* on brown, red or red-brown clay loam with dolerite, calcrete and quartz stones, often with dolerite outcropping, on low hills.
-  8 Low isolated trees of *Corymbia hamersleyana* over tall to mid sparse shrubland dominated by *Acacia bivenosa* and *A. inaequilatera* over low hummock grassland dominated by *Triodia chichesterensis* and/or *T. wiseana* and *T. angusta* on brown, red-brown or grey-brown clay loam with dolerite, calcrete, ironstone and quartz stones on colluvial stony plains.
-  9 Low isolated trees of *Corymbia hamersleyana* over mid sparse shrubland to isolated shrubs dominated by *Acacia acradenia*, *A. inaequilatera* and *Grevillea wickhamii* subsp. *hispidula* over low hummock grassland dominated by *T. wiseana*, *T. epactia* and occasionally *T. brizoides* on red, brown or red-brown clay loam with ironstone, metamorphosed granite or occasionally dolerite or quartz stones over ironstone or metamorphosed granite outcropping on cliffs, ridges and crests and upper to mid slopes of ranges.
-  10 Low isolated trees of *Corymbia hamersleyana* and/or *Corymbia zygophylla* over tall to mid open to sparse shrubland dominated by *Acacia ancistrocarpa* and occasionally *A. tumida* var. *pilbarensis*, *A. inaequilatera* and *Grevillea wickhamii* subsp. *hispidula* over low sparse shrubland of mixed species dominated by *Bonamia erecta*, *Indigofera monophylla* and *Ptilotus astrolasius* over low hummock grassland dominated by *Triodia lanigera* and occasionally *T. schinzii* and/or *T. epactia* on red, brown or red-brown sandy or clay loam, often with quartz or ironstone stones, on plains.
-  11 Low isolated trees of *Corymbia hamersleyana* over tall open to sparse shrubland dominated by *A. tumida* var. *pilbarensis*, *A. ancistrocarpa* and *A. acradenia* over low open to sparse shrubland of mixed species including *Bonamia erecta*, *Isotropis atropurpurea* and *Corchorus parviflorus* over low hummock and tussock grassland dominated by *Chrysopogon fallax*, *Triodia epactia* and occasionally *T. lanigera* on red, brown or red-brown sandy or clay loam with colluvial stones in minor drainage features including flats and small creeks.
-  12 Low open woodland of *Corymbia hamersleyana* over tall sparse shrubland dominated by *Acacia inaequilatera* over mid sparse shrubland dominated by *Acacia bivenosa* and *Codonocarpus cotinifolius* over low sparse shrubland of mixed species dominated by *Corchorus parviflorus*, *Indigofera monophylla*, *Heliotropium chryso carpum* and *Heliotropium pachyphyllum* over low hummock grassland dominated by *Triodia chichesterensis* and occasionally *T. epactia* or *T. angusta* on red, brown or grey-brown clay loam with calcrete or quartz stones on undulating plains.
-  13 Isolated low trees dominated by *Corymbia hamersleyana* over tall to mid sparse shrubland dominated by *Acacia orthocarpa*, *Grevillea wickhamii* subsp. *hispidula* and often *A. maitlandii* and *A. tumida* var. *pilbarensis* over low sparse shrubland of mixed species including *Corchorus parviflorus*, *Dampiera candidans*, *Goodenia stobbsiana*, *Indigofera monophylla* and *Scaevola browniana* subsp. *browniana* over low hummock grassland dominated by *Triodia epactia* and occasionally *T. brizoides* or *T. lanigera* on orange, brown or red-brown sandy or clay loam with granite and quartz stones over granite outcropping on undulating plains or low rises.
-  14 Low open woodland to isolated trees dominated by *Eucalyptus victrix* and/or *Corymbia hamersleyana* over tall open to sparse shrubland of mixed species dominated by *Acacia pyrifolia* var. *pyrifolia*, *A. tumida* var. *pilbarensis* and *Melaleuca linophylla* over mid to low open to sparse shrubland of mixed species including *Cajanus pubescens*, *Indigofera monophylla*, *Tephrosia rosea* var. *clementii*, *Corchorus parviflorus* and *Jasminum didymum* subsp. *lineare* over low tussock and hummock grassland to open tussock and hummock grassland of mixed species dominated by *Triodia epactia*, *Cenchrus ciliaris*, *Chrysopogon fallax*, *Cymbopogon ambiguus* and *Eriachne tenuiculmis* on red or brown clay or sandy loam, usually with colluvial stones, in major creeks.
-  15 Mid isolated shrubs of *Acacia synchronicia* over low isolated chenopod shrubs of *Maireana* sp. over low sparse forbland, tussock grassland and sedgeland of mixed species including *Portulaca oleracea*, *Ptilotus exaltatus*, *Cynodon prostratus*, *Sporobolus australasicus* and *Fimbristylis dichotoma* on red clay loam with colluvial stones on plains.
-  C Approved Clearing
-  D Degraded Land



This map should only be used in conjunction with WEC report MRL19-19-04.



Overview of Vegetation Units of the Study Area

Revision: 0 - 4 April 2020

Author: David Coultas

WEC Ref: MRL19-19-04



Filename: MRL19-19-04-f012-1.mxd



Projection: GDA 1994 MGA Zone 50


Figure


12.1



Table 11: Summary of Vegetation Units Described in the Study Area


VU	Summary	Photograph
1	<p>Description: Tall open to sparse shrubland dominated by <i>Acacia orthocarpa</i>, <i>A. ancistrocarpa</i> and occasionally <i>A. acradenia</i> over low sparse shrubland of mixed species dominated by <i>A. stellaticeps</i> over low hummock grassland dominated by <i>Triodia lanigera</i> and occasionally <i>T. epactia</i> on red-brown clay loam with granite, quartz or ironstone stones on colluvial stone plains and low flat-topped rises.</p> <p>Location: Mapped on stony plains and low rises in the north-eastern and south-eastern extent of the Study Area (Appendix M: Figures M2 and M4)</p> <p>Area mapped (Proportion of Study Area): 300.4 ha (4.5 %)</p> <p>Sampling: 16 quadrats (GNH16; GNH40; GNH41; TRH067; WD02; WD08; WD18; WD21; WD26; WD30; WD69; WDK07; WDK12; WDK14; WDK17; WDK18)</p> <p>Average Taxon Richness per Quadrat: 14.4 ± 3.5</p> <p>Indicator Taxa: <i>Triodia lanigera</i>.</p> <p>Significant Taxa: <i>Euphorbia clementii</i> (P3), <i>Heliotropium muticum</i> (P3) (preferred habitat), <i>Triodia chichesterensis</i> (P3)</p> <p>Variation and Similar VUs: The <i>Acacia</i>-dominated overstorey component was variable, ranging from comprising a relatively minor component (see Plate 9), to being more dominant (see Plate 10). <i>Acacia orthocarpa</i> and <i>A. ancistrocarpa</i> rarely co-dominated in any quadrat. <i>Triodia lanigera</i> was almost always dominant in the hummock grassland stratum, however occasionally <i>Triodia epactia</i>, and rarely <i>Triodia chichesterensis</i>, dominated or co-dominated.</p> <p>Floristically, VU 1 was most similar to the VU 2 – VU 6 group within Group 1 (Appendix I). Species such as <i>Triodia lanigera</i> were more common to VU 1 than to VU 2 – VU 6, with other species such as <i>Acacia acradenia</i> and <i>Triodia brizoides</i> either less common or not recorded in VU 1.</p>	 <p>Plate 9: VU 1 (Quadrat TRH067)</p>  <p>Plate 10: VU 1 (Quadrat WD69)</p>


VU	Summary	Photograph
2	<p>Description: Tall to mid sparse shrubland of mixed species dominated by <i>Acacia acradenia</i>, <i>A. inaequilatera</i>, <i>Grevillea wickhamii</i> subsp. <i>hispidula</i> and occasionally <i>A. tumida</i> var. <i>pilbarensis</i> and <i>A. ancistrocarpa</i> over low sparse shrubland of mixed species including <i>Indigofera monophylla</i> and <i>Goodenia stobbsiana</i> over low hummock grassland dominated by <i>Triodia epactia</i> and/or <i>T. brizoides</i> on red, brown or red-brown clay loam with metamorphic, ironstone, quartz and occasionally granite stones, occasionally with metamorphosed granite or granite outcropping, on lower slopes and colluvial outwashes of ranges and occasionally on low flat-topped rises.</p> <p>Location: Mapped on lower slopes and outwashes predominantly in the north-western and central extent of the Study Area, as well as some smaller areas in the south-east (Appendix M; Figures M1, M2, M3 and M4)</p> <p>Area mapped (Proportion of Study Area): 834.5 ha (12.4 %);</p> <p>Sampling: 27 quadrats (HER001; HER003; HER007; HER014; HER017; HER022; HER050; HER051; HER057; HER061; HER062; HER066; TRH060; TRH062; WD24; WD32; WD40; WDD01; WDD04; WDD06; WDD09; WDD21; WDK04; WDM13; WDM16; WDM17; WDM19)</p> <p>Average Taxon Richness per Quadrat: 14.9 ± 3.9</p> <p>Indicator Taxa: No indicator taxa.</p> <p>Significant Taxa: <i>Euphorbia clementii</i> (P3) (preferred habitat), <i>Terminalia supranitifolia</i> (P3), <i>Triodia chichesterensis</i> (P3), <i>Vigna triodiophila</i> (P3)</p> <p>Variation and Similar VUs: The <i>Acacia</i>-dominated overstorey component was variable, ranging from comprising a relatively minor component (see Plate 9), to being more dominant. <i>Acacia acradenia</i> was almost always present and almost always dominant or co-dominant, however <i>Acacia tumida</i> var. <i>pilbarensis</i> was dominant at some locations. <i>Triodia epactia</i> was almost always dominant or co-dominant in the hummock grassland stratum, with <i>Triodia brizoides</i> often co-dominant or dominant; rarely, <i>Triodia lanigera</i> or <i>Triodia wiseana</i> dominated or co-dominated.</p> <p>VU 2 was floristically most similar to VU 3, however was generally more species poor, and was mapped on lower slopes and outwashes as opposed to crests and upper slopes.</p>	 <p>Plate 11: VU 2 (Quadrat HER001)</p>  <p>Plate 12: VU 2 (Quadrat WD32)</p>


VU	Summary	Photograph
3	<p>Description: Low open woodland to isolated trees of <i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> and/or <i>Corymbia hamersleyana</i> over tall to mid sparse to open shrubland dominated by <i>Acacia acradenia</i>, <i>Grevillea wickhamii</i> subsp. <i>hispidula</i> and <i>A. tumida</i> var. <i>pilbarensis</i> over low sparse shrubland of mixed species including <i>Dampiera candidans</i>, <i>Indigofera monophylla</i>, <i>Goodenia stobbsiana</i> and <i>Triumfetta maconochieana</i> over low hummock grassland dominated by <i>Triodia epactia</i> and often <i>T. brizoides</i> or <i>T. wiseana</i> over low sparse tussock grassland dominated by <i>Eriachne mucronata</i> on red, brown or red brown clay loam with ironstone or metamorphosed granite stones over ironstone or metamorphosed granite outcropping on plateaus, crests and upper slopes of ranges.</p> <p>Location: Mapped on ranges with ironstone or granite in the far north-western, central eastern and south-western extent of the Study Area (Appendix M; Figures M1, M2, M3 and M4)</p> <p>Area mapped (Proportion of Study Area): 250.8 ha (3.7 %)</p> <p>Sampling: 15 quadrats (HER044; HER046; HER049; HER053; W01A; W03A; WD09; WD13; WD20; WDD07; WDK11; WDK20; WDK21; WDM11; WDM18)</p> <p>Average Taxon Richness per Quadrat: 20.3 ± 7.0</p> <p>Indicator Taxa: <i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>, <i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543) and <i>Triumfetta maconochieana</i>.</p> <p>Significant Taxa: <i>Terminalia supranitifolia</i> (P3)</p> <p>Variation and Similar VUs: VU 3 was relatively homogenous, except for the tree stratum and low shrub stratum, which were not present consistently throughout the VU, and varied in species composition between locations. The upper shrub stratum was generally present and consistent in composition. <i>Triodia epactia</i> was almost always dominant or co-dominant in the hummock grassland stratum, with <i>Triodia brizoides</i> or <i>Triodia wiseana</i> occasionally co-dominating. For similar VUs, see under VU 2.</p>	 <p data-bbox="1496 730 1850 758">Plate 13: VU 3 (Quadrat WDD07)</p>



VU	Summary	Photograph
4	<p>Description: Tall to mid sparse shrubland dominated by <i>Acacia inaequilatera</i>, <i>A. acradenia</i> and <i>Grevillea wickhamii</i> subsp. <i>hispidula</i> over low sparse shrubland of mixed species including <i>Corchorus parviflorus</i> and <i>Indigofera monophylla</i> over low hummock grassland dominated by <i>Triodia epactia</i> and/or <i>T. wiseana</i>, or occasionally <i>T. brizoides</i> and <i>T. chichesterensis</i>, on red, brown or red-brown clay loam with metamorphosed granite, dolerite and occasionally ironstone stones over metamorphosed granite or dolerite outcropping on mid and upper slopes of ranges, and low ridges and hills.</p> <p>Location: Mapped on range slopes and ridges and rocky hills throughout central to southern extent of the Study Area (Appendix M: Figures M1, M2, M3 and M4)</p> <p>Area mapped (Proportion of Study Area): 324.3 ha (4.8%)</p> <p>Sampling: 18 quadrats (HER009; HER010; HER055; HER058; HER064; W04A; W05A; W06A; WD06; WD17; WD19; WD58; WD66; WDK01; WDK05; WDK10; WDK13; WDK15)</p> <p>Average Taxon Richness per Quadrat: 22.2 ± 5.1</p> <p>Indicator Taxa: <i>Senna glutinosa</i> subsp. <i>glutinosa</i>.</p> <p>Significant Taxa: <i>Euphorbia clementii</i> (P3), <i>Terminalia supranitifolia</i> (P3) (preferred habitat), <i>Triodia chichesterensis</i> (P3) (preferred habitat).</p> <p>Variation and Similar VUs: This VU was relatively consistent, with sparse, species poor shrub strata almost always present, with low trees very occasionally also present. The most prominent variation was in the hummock grassland stratum; <i>Triodia epactia</i> and <i>Triodia wiseana</i> usually dominated or co-dominated, however other <i>Triodia</i> species including <i>Triodia brizoides</i> or <i>Triodia chichesterensis</i> occasionally dominated or co-dominated. VU 4 was most floristically similar to VU 5 of Group 1. However, VU 4 had higher species richness, and generally occurred in higher, rockier terrain, which was reflected in its species composition, particularly in the consistent presence of <i>Triodia wiseana</i> and <i>Triodia epactia</i>.</p>	 <p data-bbox="1503 730 1845 758">Plate 14: VU 4 (Quadrat WD17)</p>



VU	Summary	Photograph
5	<p>Description: Tall to mid sparse shrubland of mixed species dominated by <i>Acacia acradenia</i>, <i>A. inaequilatera</i> and <i>A. orthocarpa</i> over low sparse shrubland of mixed species dominated by <i>Acacia spondylophylla</i> over low hummock grassland dominated by a combination of <i>Triodia chichesterensis</i>, <i>T. wiseana</i>, <i>T. epactia</i>, <i>T. brizoides</i> and <i>T. lanigera</i> on red-brown clay loam with metamorphosed granite, ironstone, dolerite, quartz and calcrete stones, occasionally over metamorphosed granite and dolerite outcropping, on lower slopes and colluvial outwashes of ranges and low flat-topped rises.</p> <p>Location: Mapped on slopes and outwashes in the south-eastern and south-western extent of the Study Area (Appendix M; Figures M3 and M4)</p> <p>Area mapped (Proportion of Study Area): 375.0 ha (5.6 %)</p> <p>Sampling: 16 quadrats (TRH061; TRH066; WD29; WD35; WD39; WD45; WD49; WD60; WD62; WD76; WD86; WD92; WDM01; WDM02; WDM07; WDM27)</p> <p>Average Taxon Richness per Quadrat: 20.9 ± 6.1</p> <p>Indicator Taxa: <i>Acacia spondylophylla</i>.</p> <p>Significant Taxa: <i>Euphorbia clementii</i> (P3), <i>Terminalia supranitifolia</i> (P3), <i>Triodia chichesterensis</i> (P3) (preferred habitat).</p> <p>Variation and Similar VUs: The upper stratum was uniformly sparse throughout; the taxa present varied between locations to some extent, although <i>Acacia inaequilatera</i> and <i>Acacia acradenia</i> were generally present, with <i>Acacia tumida</i> var. <i>pilbarensis</i> dominating occasionally. The composition of the hummock grassland was the most variable of all VUs, as noted in the description above.</p> <p>VU 5 was most floristically similar to VUs 4 and 6; see under these VUs.</p>	 <p data-bbox="1503 727 1845 754">Plate 15: VU 5 (Quadrat WD86)</p>  <p data-bbox="1503 1310 1845 1337">Plate 16: VU 5 Quadrat (WD35)</p>



VU	Summary	Photograph
6	<p>Description Low open woodland to isolated trees of <i>Corymbia hamersleyana</i> over tall to mid sparse shrubland dominated by <i>Acacia inaequilatera</i>, <i>A. acradenia</i> and <i>Grevillea wickhamii</i> subsp. <i>hispidula</i> over low hummock grassland dominated by <i>Triodia chichesterensis</i> and/or <i>T. wiseana</i> on brown or occasionally red clay loam with calcrete, quartz and metamorphosed granite stones, occasionally over calcrete outcropping, on colluvial outwashes of ranges and colluvial stony plains.</p> <p>Location: Mapped on outwashes and plains in the north-eastern to central-eastern extent of the Study Area as well as small areas in the north-western part of the Study Area (Appendix M: Figures M1, M2 and M4)</p> <p>Area mapped (Proportion of Study Area): 215.4 ha (3.2 %)</p> <p>Sampling: 10 quadrats (HER015; HER029; HER031; HER033; WD44; WD55; WD59; WD89; WDM14; WDM20)</p> <p>Average Taxon Richness per Quadrat: 17.4 ± 9.0</p> <p>Indicator Taxa: <i>Cassytha capillaris</i>.</p> <p>Significant Taxa: <i>Euphorbia clementii</i> (P3), <i>Triodia chichesterensis</i> (P3) (preferred habitat.)</p> <p>Variation and Similar VUs: The tree and tall shrub strata were generally very sparse and consistent in composition, however on some occasions they were absent altogether. <i>Triodia chichesterensis</i> was always present and almost always dominated the hummock grassland stratum or co-dominated with <i>Triodia wiseana</i>, although occasionally other <i>Triodia</i> species such as <i>Triodia epactia</i> or <i>Triodia lanigera</i> co-dominated. VU 6 was most floristically similar to VU 5, however was more species-poor, and was characterised by the presence of <i>Triodia chichesterensis</i> at all locations.</p>	 <p>Plate 17: VU 6 (Quadrat HER015)</p>


VU	Summary	Photograph
7	<p>Description: Tall to mid sparse shrubland of mixed species including <i>Acacia inaequilatera</i>, <i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i> and <i>A. orthocarpa</i> over low hummock grassland dominated by <i>Triodia chichesterensis</i> and/or <i>T. wiseana</i> on brown, red or red-brown clay loam with dolerite, calcrete and quartz stones, often with dolerite outcropping, on low hills.</p> <p>Location: Mapped on low hills in the central, south-western and far southern extent of the Study Area (Appendix M: Figures M1, M2, M3 and M4)</p> <p>Area mapped (Proportion of Study Area): 369.9 ha (5.5 %)</p> <p>Sampling: 11 quadrats (HER028; HER035; HER036; HER067; WD46; WD50; WD52; WD83; WDK03; WDK23; WDM26)</p> <p>Average Taxon Richness per Quadrat: 16.4 ± 6.2</p> <p>Indicator Taxa: <i>Boerhavia gardneri</i>, <i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i> and <i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen <i>et al.</i> PBS 0356).</p> <p>Significant Taxa: <i>Euphorbia clementii</i> (P3), <i>Terminalia supranitifolia</i> (P3), <i>Triodia chichesterensis</i> (P3) (preferred habitat), <i>Vigna triodiophila</i> (P3).</p> <p>Variation and Similar VUs: The tall shrub stratum was generally very sparse, however on some occasions was absent altogether. <i>Acacia inaequilatera</i> and <i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i> usually dominated this stratum, although occasionally <i>Acacia orthocarpa</i> replaced them. <i>Triodia chichesterensis</i> was almost always present and usually dominated the hummock grassland stratum or co-dominated with <i>Triodia wiseana</i>, although occasionally <i>Triodia epactia</i> dominated. VU 7 was most floristically similar to VU 8, however was much more species-rich, and <i>Acacia bivenosa</i> was not present.</p>	 <p data-bbox="1503 727 1845 754">Plate 18: VU 7 (Quadrat WD52)</p>


VU	Summary	Photograph
8	<p>Description: Low isolated trees of <i>Corymbia hamersleyana</i> over tall to mid sparse shrubland dominated by <i>Acacia bivenosa</i> and <i>A. inaequilatera</i> over low hummock grassland dominated by <i>Triodia chichesterensis</i> and/or <i>T. wiseana</i> and <i>T. angusta</i> on brown, red-brown or grey-brown clay loam with dolerite, calcrete, ironstone and quartz stones on colluvial stony plains.</p> <p>Location: Mapped on stony plains in the central-eastern to south-eastern extent of the Study Area (Appendix M: Figure M2 and M4)</p> <p>Area mapped (Proportion of Study Area): 134.1 ha (2.0 %)</p> <p>Sampling: 8 quadrats (TRH063; WD48; WD80; WDK02; WDK06; WDM03; WDM04; WDM21)</p> <p>Average Taxon Richness per Quadrat: 11.0 ± 3.2</p> <p>Indicator Taxa: No indicator taxa.</p> <p>Significant Taxa: <i>Terminalia supranitifolia</i> (P3), <i>Triodia chichesterensis</i> (P3) (preferred habitat).</p> <p>Variation and Similar VUs: The tree stratum was often absent in this VU. The tall shrub stratum was relatively variable in composition; although <i>Acacia bivenosa</i> and <i>A. inaequilatera</i> were usually present, occasionally <i>Acacia acradenia</i> or <i>Acacia orthocarpa</i> replaced them. <i>Triodia chichesterensis</i> was always present and usually dominant, with <i>Triodia wiseana</i> and <i>Triodia angusta</i> often co-dominant; rarely the latter species dominated.</p> <p>VU 8 was most floristically similar to VU 7, see under this VU.</p>	 <p data-bbox="1503 727 1845 754">Plate 19: VU 8 (Quadrat WD48)</p>



VU	Summary	Photograph
9	<p>Description: Low isolated trees of <i>Corymbia hamersleyana</i> over mid sparse shrubland to isolated shrubs dominated by <i>Acacia acradenia</i>, <i>A. inaequilatera</i> and <i>Grevillea wickhamii</i> subsp. <i>hispidula</i> over low hummock grassland dominated by <i>T. wiseana</i>, <i>T. epactia</i> and occasionally <i>T. brizoides</i> on red, brown or red-brown clay loam with ironstone, metamorphosed granite or occasionally dolerite or quartz stones over ironstone or metamorphosed granite outcropping on cliffs, ridges and crests and upper to mid slopes of ranges.</p> <p>Location: Mapped on ranges throughout the north-western, central and southern extent of the Study Area (Appendix M; Figures M1, M2, M3 and M4)</p> <p>Area mapped (Proportion of Study Area): 1388.8 ha (20.6 %)</p> <p>Sampling: 53 quadrats (HER004; HER005; HER008; HER016; HER018; HER039; HER040; HER041; HER042; HER043; HER047; HER052; HER054; HER059; HER060; HER063; HER068; TRH052 ;TRH056; TRH057; TRH059; W02A; WD05; WD07; WD11; WD22; WD23; WD27; WD31; WD34; WD36; WD38; WD41; WD42; WD43; WD47; WD54; WD56; WD84; WD87; WD88; WD96; WDD05; WDD20; WDD23; WDK22; WDK24; WDK25; WDM10; WDM15; WDM22; WDM23; WDM24)</p> <p>Average Taxon Richness per Quadrat: 27.7 ± 9.0</p> <p>Indicator Taxa: <i>Cymbopogon ambiguus</i>, <i>Cyperus hesperius</i>, <i>Euphorbia careyi</i>, <i>Solanum horridum</i>, <i>Triumfetta propinqua</i> and <i>Tribulus suberosus</i></p> <p>Significant Taxa: <i>Abutilon</i> aff. <i>hannii</i> (potentially undescribed), <i>Euphorbia clementii</i> (P3) (preferred habitat), <i>Terminalia supranitifolia</i> (P3) (preferred habitat), <i>Triodia chichesterensis</i> (P3) (preferred habitat).</p> <p>Variation and Similar VUs: The upper tree stratum was often absent in this VU. The tall shrubland stratum was usually present, however often only isolated shrub were present, and occasionally these were also absent. <i>Acacia acradenia</i> was almost always present when this stratum was present. The hummock grassland was fairly consistently dominated or co-dominated by <i>Triodia wiseana</i> and <i>Triodia epactia</i>, although <i>Triodia brizoides</i> occasionally co-dominated, and rarely dominated.</p> <p>VU 9 is most similar to VUs 3 and 4, however is more species-rich, and contains a number of taxa that prefer rocky outcrop habitats that are either absent or rare in these VTs.</p>	 <p>Plate 20: VU 9 (Quadrat WDM10)</p>  <p>Plate 21: VU 9 (Quadrat HER016)</p>

VU	Summary	Photograph
10	<p>Description: Low isolated trees of <i>Corymbia hamersleyana</i> and/or <i>Corymbia zygophylla</i> over tall to mid open to sparse shrubland dominated by <i>Acacia ancistrocarpa</i> and occasionally <i>A. tumida</i> var. <i>pilbarensis</i>, <i>A. inaequilatera</i> and <i>Grevillea wickhamii</i> subsp. <i>hispidula</i> over low sparse shrubland of mixed species dominated by <i>Bonamia erecta</i>, <i>Indigofera monophylla</i> and <i>Ptilotus astrolasius</i> over low hummock grassland dominated by <i>Triodia lanigera</i> and occasionally <i>T. schinzii</i> and/or <i>T. epactia</i> on red, brown or red-brown sandy or clay loam, often with quartz or ironstone stones, on plains.</p> <p>Location: Mapped on plains in the northern extent of the Study Area (Appendix M: Figures M1 and M2)</p> <p>Area mapped (Proportion of Study Area): 1240.4 ha (18.4 %)</p> <p>Sampling: 22 quadrats (HER012; HER070; WD10; WD14; WD51; WD57; WD61; WD67; WD71; WD75; WDD02; WDD03; WDD08; WDD10; WDD11; WDD12; WDD13; WDD14; WDD17; WDD18; WDD19; WDD24)</p> <p>Average Taxon Richness per Quadrat: 16.4 ± 6.7</p> <p>Indicator Taxa: <i>Acacia ancistrocarpa</i>, <i>Bonamia erecta</i>, <i>Corymbia zygophylla</i> and <i>Triodia schinzii</i></p> <p>Significant Taxa: <i>Euphorbia clementii</i> (P3) (preferred habitat), <i>Triodia chichesterensis</i> (P3).</p> <p>Variation and Similar VUs: Much of the variation was related to the relative stoniness of the occurrence, with some areas completely stony, and others completely sandy. The tree stratum was very sparse and absent in some areas; generally, <i>Corymbia zygophylla</i> dominated sandier sites, while <i>Corymbia hamersleyana</i> dominated stony sites. The tall shrub stratum was generally sparse on sandy sites and open on stony sites, however the composition was quite uniform across most sites. <i>Triodia lanigera</i> dominated or co-dominated almost all occurrences, especially occurrences that were stony; occasionally <i>Triodia epactia</i> and/or <i>Triodia schinzii</i> dominated, but this was almost always at sandy sites. VU 10 is most similar to VU 11, however that VT occurs in water-gaining sites such as flow lines or flats, and consequently has much higher species richness.</p>	 <p data-bbox="1487 730 1859 758">Plate 22: VU 10 (Quadrat WDD14)</p>  <p data-bbox="1487 1313 1859 1340">Plate 23: VU 10 (Quadrat WDD13)</p>


VU	Summary	Photograph
11	<p>Description: Low isolated trees of <i>Corymbia hamersleyana</i> over tall open to sparse shrubland dominated by <i>A. tumida</i> var. <i>pilbarensis</i>, <i>A. ancistrocarpa</i> and <i>A. acradenia</i> over low open to sparse shrubland of mixed species including <i>Bonamia erecta</i>, <i>Isotropis atropurpurea</i> and <i>Corchorus parviflorus</i> over low hummock and tussock grassland dominated by <i>Chrysopogon fallax</i>, <i>Triodia epactia</i> and occasionally <i>T. lanigera</i> on red, brown or red-brown sandy or clay loam with colluvial stones in minor drainage features including flats and small creeks.</p> <p>Location: Mapped on minor drainage areas in the northern and south-eastern extent of the Study Area (Appendix M; Figures M1, M2 and M4).</p> <p>Area mapped (Proportion of Study Area): 185.5 ha (2.8%)</p> <p>Sampling: 19 quadrats (GNH17; HER011; HER019; HER021; HER024; HER032; HER069; WD16; WD28; WD53; WD63; WD74; WD82; WD91; WDD16; WDK16; WDK19; WDM05; WDM08)</p> <p>Average Taxon Richness per Quadrat: 40.9 ± 14.4</p> <p>Indicator Taxa: <i>Acacia tumida</i> var. <i>pilbarensis</i>, <i>Aristida holathera</i> var. <i>holathera</i>, <i>Chrysopogon fallax</i>, <i>Eragrostis eriopoda</i>, <i>Isotropis atropurpurea</i>, <i>Paraneurachne muelleri</i> and <i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601).</p> <p>Significant Taxa: <i>Euphorbia clementii</i> (P3) (preferred habitat), <i>Triodia chichesterensis</i> (P3).</p> <p>Variation and Similar VUs: The tree and tall shrub strata were relatively consistent compositionally, however structurally the tall shrub stratum was quite variable; this appears to be related to the amount of drainage water the areas receive, with the shrubland generally densest at the wettest sites. This was also the case for the low shrub stratum; however, this stratum varied greatly in composition, and was generally not dominated by any one taxon. The lower stratum was also relatively variable; often it was dominated by <i>Triodia epactia</i>, or more rarely <i>Triodia lanigera</i>; however, tussock grasses such as <i>Chrysopogon fallax</i> were also occasionally co-dominant and rarely dominant. VU 11 is most similar to VU 12; however, this primarily appears to be because the rocky calcrete sites that VU 12 occurs on are interspersed with sandy flow lines that contain species frequently recorded in VU 11. It is also similar to VU 10 – see under that VU for discussion.</p>	 <p>Plate 24: VU 11 (Quadrat WDK16)</p>  <p>Plate 25: VU 11 (Quadrat WD74)</p>

VU	Summary	Photograph
12	<p>Description: Low open woodland of <i>Corymbia hamersleyana</i> over tall sparse shrubland dominated by <i>Acacia inaequilatera</i> over mid sparse shrubland dominated by <i>Acacia bivenosa</i> and <i>Codonocarpus cotinifolius</i> over low sparse shrubland of mixed species dominated by <i>Corchorus parviflorus</i>, <i>Indigofera monophylla</i>, <i>Heliotropium chrysocarpum</i> and <i>Heliotropium pachyphyllum</i> over low hummock grassland dominated by <i>Triodia chichesterensis</i> and occasionally <i>T. epactia</i> or <i>T. angusta</i> on red, brown or grey-brown clay loam with calcrete or quartz stones on undulating plains.</p> <p>Location: Mapped on undulating plains in the north-eastern and south-eastern extent of the Study Area (Appendix M: Figure M2 and M4).</p> <p>Area mapped (Proportion of Study Area): 59.7 ha (0.9 %)</p> <p>Sampling: 7 quadrats (WD03; WD12; WD70; WD77; WD78; WDD15; WDD22)</p> <p>Average Taxon Richness per Quadrat: 23.7 ± 4.1</p> <p>Indicator Taxa: <i>Acacia bivenosa</i>, <i>Codonocarpus cotinifolius</i> and <i>Heliotropium chrysocarpum</i>.</p> <p>Significant Taxa: <i>Euphorbia clementii</i> (P3), <i>Triodia chichesterensis</i> (P3) (preferred habitat).</p> <p>Variation and Similar VUs: This VU was relatively consistent structurally and compositionally. <i>Triodia chichesterensis</i> usually dominated the hummock grassland stratum, although occasionally <i>Triodia angusta</i> replaced it. <i>Triodia epactia</i> was also often present, with its abundance related to the number of sandy flowlines that usually dissected the otherwise calcrete-stony plains where this VU occurred.</p> <p>This VU is not particularly similar to any other VUs, although it is related to VU 11 to an extent; see under that VU for discussion.</p>	 <p data-bbox="1496 727 1850 754">Plate 26: VU 12 (Quadrat WD78)</p>

VU	Summary	Photograph
13	<p>Description: Isolated low trees dominated by <i>Corymbia hamersleyana</i> over tall to mid sparse shrubland dominated by <i>Acacia orthocarpa</i>, <i>Grevillea wickhamii</i> subsp. <i>hispidula</i> and often <i>A. maitlandii</i> and <i>A. tumida</i> var. <i>pilbarensis</i> over low sparse shrubland of mixed species including <i>Corchorus parviflorus</i>, <i>Dampiera candicans</i>, <i>Goodenia stobbsiana</i>, <i>Indigofera monophylla</i> and <i>Scaevola browniana</i> subsp. <i>browniana</i> over low hummock grassland dominated by <i>Triodia epactia</i> and occasionally <i>T. brizoides</i> or <i>T. lanigera</i> on orange, brown or red-brown sandy or clay loam with granite and quartz stones over granite outcropping on undulating plains or low rises.</p> <p>Location: Mapped on undulating plains and low rises influenced by granite predominantly in south-eastern extent of the Study Area as well as some smaller areas in the north-eastern and south-western parts of the Study Area (Appendix M: Figure M2, M3 and M4).</p> <p>Area mapped (Proportion of Study Area): 57.2 ha (0.9 %)</p> <p>Sampling: 12 quadrats (WD04; WD33; WD37; WD68; WD72; WD79; WD81; WD85; WD94; WDK08; WDK09; WDM09)</p> <p>Average Taxon Richness per Quadrat: 35.8 ± 10.4</p> <p>Indicator Taxa: <i>Acacia maitlandii</i>, <i>Acacia orthocarpa</i>, <i>Bonamia alatisemina</i>, <i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>, <i>Fimbristylis dichotoma</i>, <i>Hibiscus sturtii</i> var. <i>campylochlamys</i>, <i>Scaevola browniana</i> subsp. <i>browniana</i> and <i>Tripogonella loliiformis</i>.</p> <p>Significant Taxa: <i>Euphorbia clementii</i> (P3), <i>Triodia chichesterensis</i> (P3).</p> <p>Variation and Similar VUs:</p> <p>Although the tree stratum of <i>Corymbia hamersleyana</i> was not consistently present, a consistent tall shrubland stratum was present. <i>Acacia orthocarpa</i> and <i>Grevillea wickhamii</i> subsp. <i>hispidula</i> were almost always present and co-dominant, with <i>Acacia maitlandii</i> and <i>Acacia tumida</i> var. <i>pilbarensis</i> also regularly dominating. The low shrub stratum was consistently present, but was compositionally variable. Generally <i>Triodia epactia</i> dominated, although other <i>Triodia</i> species occasionally co-dominated. This VU also sometimes had a defined forb stratum that was relatively species-rich, however this was usually only at locations where there was a relatively large amount of granite outcropping. This VU is not especially similar to any other VUs.</p>	 <p>Plate 27: VU 13 (Quadrat WD85)</p>

VU	Summary	Photograph
14	<p>Description: Low open woodland to isolated trees dominated by <i>Eucalyptus victrix</i> and/or <i>Corymbia hamersleyana</i> over tall open to sparse shrubland of mixed species dominated by <i>Acacia pyrifolia</i> var. <i>pyrifolia</i>, <i>A. tumida</i> var. <i>pilbarensis</i> and <i>Melaleuca linophylla</i> over mid to low open to sparse shrubland of mixed species including <i>Cajanus pubescens</i>, <i>Indigofera monophylla</i>, <i>Tephrosia rosea</i> var. <i>clementii</i>, <i>Corchorus parviflorus</i> and <i>Jasminum didymum</i> subsp. <i>lineare</i> over low tussock and hummock grassland to open tussock and hummock grassland of mixed species dominated by <i>Triodia epactia</i>, <i>Cenchrus ciliaris</i>, <i>Chrysopogon fallax</i>, <i>Cymbopogon ambiguus</i> and <i>Eriachne tenuiculmis</i> on red or brown clay or sandy loam, usually with colluvial stones, in major creeks.</p> <p>Location: Mapped on major drainage lines throughout the Study Area (Appendix M; Figures M1, M2, M3 and M4).</p> <p>Area mapped (Proportion of Study Area): 209.3 ha (3.1 %)</p> <p>Sampling: 26 quadrats (GNH18; HER002; HER006; HER013; HER020; HER023; HER025; HER026; HER027; HER030; HER034; HER037; HER038; HER045; HER056; TRH058; TRH064; TRH065; WD15; WD25; WD64; WD73; WD90; WDM06; WDM12; WDM25)</p> <p>Average Taxon Richness per Quadrat: 44.3 ± 12.1</p> <p>Indicator Taxa: <i>Abutilon</i> aff. <i>hannii</i>, <i>Acacia coriacea</i> subsp. <i>pendens</i>, <i>Acacia pyrifolia</i> var. <i>pyrifolia</i>, <i>Acacia trachycarpa</i>, <i>Boerhavia schomburgkiana</i>, <i>Cajanus pubescens</i>, <i>Eucalyptus victrix</i>, <i>Jasminum didymum</i> subsp. <i>lineare</i>, <i>Melaleuca linophylla</i>, <i>Phyllanthus maderaspatensis</i>, <i>Polymeria ambigua</i>, <i>Pterocaulon sphacelatum</i>, <i>Rhynchosia minima</i>, <i>Stemodia grossa</i>, <i>Tephrosia rosea</i> var. <i>clementii</i> and <i>Themeda triandra</i></p> <p>Significant Taxa: <i>Abutilon</i> aff. <i>hannii</i> (potentially undescribed) (preferred habitat), <i>Euphorbia clementii</i> (P3), <i>Terminalia supranitifolia</i> (P3), <i>Triodia chichesterensis</i> (P3), <i>Vigna triodiophila</i> (P3).</p> <p>Variation and Similar VUs: A tree stratum was almost always present, with <i>Eucalyptus victrix</i> in particular dominating the larger drainage lines, often with <i>Corymbia hamersleyana</i>; in smaller drainage lines the latter tended to dominate. In rare cases <i>Melaleuca argentea</i> was prevalent, but only where there appeared to be relatively consistent seepage water. Rarely, no trees were present – in particular, drainage lines higher in the ranges had no trees. The tall shrub strata varied in density, however was compositionally quite consistent, although <i>Melaleuca linophylla</i> was often very sparse or absent, and in sandier drainage lines, occasionally <i>Acacia trachycarpa</i> co-dominated. The lower shrub strata was always present but variable in both structure and composition, with</p>	 <p data-bbox="1487 727 1859 754">Plate 28: VU 14 (Quadrat WDM25)</p>  <p data-bbox="1487 1326 1859 1353">Plate 29: VU 14 (Quadrat HER037)</p>

VU	Summary	Photograph
	<p>no one taxon generally dominating. The grassland stratum was similar, with tussock grasses such as <i>Chrysopogon fallax</i>, <i>Cymbopogon ambiguus</i> and <i>Eriachne tenuiculmis</i> often dominating, sometimes with <i>Triodia epactia</i>, although in some cases the latter was very sparse. This VU also occasionally had a diverse forb stratum, generally in larger drainage lines where more water collects. This VU is not especially similar to any other VUs.</p>	

VU	Summary	Photograph
15	<p>Description: Mid isolated shrubs of <i>Acacia synchronicia</i> over low isolated chenopod shrubs of <i>Maireana</i> sp. over low sparse forbland, tussock grassland and sedgeland of mixed species including <i>Portulaca oleracea</i>, <i>Ptilotus exaltatus</i>, <i>Cynodon prostratus</i>, <i>Sporobolus australasicus</i> and <i>Fimbristylis dichotoma</i> on red clay loam with colluvial stones on plains.</p> <p>Location: Mapped in one low-lying area in the north-eastern extent of the Study Area (Appendix M: Figure M2).</p> <p>Area mapped (Proportion of Study Area): 15.6 ha (0.2 %)</p> <p>Sampling: 2 quadrats (WD01; WD65)</p> <p>Average Taxon Richness per Quadrat: 9.5 ± 2.1</p> <p>Indicator Taxa: <i>Acacia synchronicia</i>, <i>Maireana</i> sp., <i>Sida fibulifera</i> and <i>Triodia longiceps</i>.</p> <p>Significant Taxa: None recorded.</p> <p>Variation and Similar VUs: There was no variation observed across the very small area of this VU mapped. This VU is not similar to any other VUs.</p>	 <p data-bbox="1496 730 1850 758">Plate 30: VU 15 (Quadrat WD01)</p>

5.2.2.3 Other Areas Described

Areas where there is either approved disturbance (as provided by MARBL JV) or where natural vegetation has been completely and apparently permanently removed, with no native taxa remaining, have been mapped as 'Approved Clearing' (C). This includes roads (and associated infrastructure including culverts), tracks and areas cleared for mining activities. A total of 781.7 ha of 'Approved Clearing' has been mapped, representing 11.6 % of the Study Area (Figure 12; Appendix M).

In addition, one area where vegetation has been historically cleared and left to regrow was mapped as Degraded Land (D). A total of 2.4 ha of Degraded Land were mapped, representing 0.04% of the Study Area (Figure 12; Appendix M).

5.2.2.4 Significant Vegetation

No listed significant vegetation is known to occur in or within the vicinity of the Study Area (Section 5.1.6). None of the VUs mapped within the Study Area are considered to represent any formally listed TECs (DBCA 2018; DoEE 2019) or PECs (DBCA 2019a).

None of the VUs mapped in the Study Area are considered to be significant for reasons other than formal listing (see Section 3.9.2). Based on field observations and aerial photograph interpretation, all VUs mapped in the Study Area are either known to, or considered likely to, extend outside the Study Area to some extent. VUs 12, 13 and 15 are locally restricted, comprising less than 1% of the Study Area each. However, it is considered that this is because only very small amounts of the landforms that these VUs occur on are intersected by the Study Area. Investigation of aerial photography indicates that the low calcrete rises and stony plains where VUs 12 and 15 are much more prevalent to the east of the Study Area, while there are significant areas of the granite outcrops that VU 13 occurs on to the south of the Study Area.

As no Pilbara-wide vegetation dataset defined at the same scale that the VUs were defined at is available, it is not possible to conclusively assess the significance of VUs in a regional context. However, based on the overall taxon composition of the VUs mapped, it is likely that these would be relatively widespread in the general region surrounding the Study Area; additionally, the landforms and geology that the VUs are associated with are known to occur widely in the region (see Sections 2.2 and 5.1.1). Although several VUs are characterised by the presence of the somewhat restricted *Triodia chichesterensis* (P3), this species is known to occur relatively widely to the east of the Study Area, and it is considered probable that such VUs would also occur to the east of the Study Area based on the landforms that they occur on.

5.2.2.5 Wetlands, Groundwater and Surface Water Dependent Vegetation

Riparian vegetation is defined as plant habitats and communities occurring in association with watercourses, both ephemeral and permanent. Two VUs mapped in the Study Area contain riparian vegetation:

- VU 11: mapped in minor drainage features including flats and small ephemeral creeklines. This VU was mainly located on small drainage lines; however, it was also

mapped on associated flats in the north-east of the Study Area. A total of 185.5 ha of VU 11 were mapped in the Study Area (Appendix M).

- VU 14: mapped in major ephemeral creeklines. A total of 209.31 ha of VU 14 were mapped in the Study Area (Appendix M).

No other VUs mapped within the Study Area are considered to be wetlands.

As such, only VUs 11 and 14 are considered to be totally dependent on surface water flows for survival.

Groundwater dependent vegetation is known to occur in the Pilbara, and is generally indicated by the presence of one or several phreatophytic species. These are:

- *Melaleuca argentea* (obligate phreatophyte) (Graham 2001; cited in Department of Water 2010). Studies by Graham (2001) indicate that this species has a shallow planiform root system adapted to areas of very shallow groundwater (2-3 m below ground level) and has difficulties adjusting to short periods of dry conditions (Department of Water 2010). Studies undertaken by BHP (1997) indicate that a decline in groundwater level of 0.5 m may result in decreased vigour of plants and that a decline of 1 m or more may result in death.
- *Eucalyptus camaldulensis* (obligate or facultative phreatophyte, depending on the specific hydrological characteristics of a site (Department of Water 2010)). It is likely that this taxon is phreatophytic when groundwater is present only within 10m of the surface, and may be sensitive when groundwater drawdown occurs at a rapid rate in these areas.
- *Sesbania formosa* (likely to be an obligate phreatophyte (Department of Water 2010)).
- *Melaleuca glomerata*, *Atalaya hemiglauca*, *Acacia ampliceps* and *Melaleuca linophylla* - partially facultative phreatophytes, primarily based on their presence in major river channels where groundwater is known to be close to the surface (Loomes 2010a, 2010b; Loomes and Braimbridge 2010). No impacts through groundwater drawdown have been noted regarding *Atalaya hemiglauca*, *Acacia ampliceps* and *Melaleuca linophylla* based on observations by Woodman Environmental (2019c) indicating that these taxa have a low likelihood of phreatophytic nature. Therefore these species will not be considered further. Some impacts to *Melaleuca glomerata* were observed with regard to individuals located on a shallow sandbar that had been supported by a shallow groundwater table, and therefore this taxon is potentially phreatophytic depending upon the situations in which it grows.
- *Eucalyptus victrix* – suggested to be facultative phreatophyte in some situations (AQ2 2015; Eastham, 2015; Loomes and Braimbridge 2010; Loomes 2010a), however it is generally considered to be a vadophyte (AQ2 2015). Monitoring at the Ridley River (Pardoo) observed no impacts to *E. victrix* surrounding a bore over three years of extraction (Woodman Environmental 2014b); therefore, this taxon is not considered further.

Based on the presence of several of the above-noted taxa, it is possible that some occurrences of VU 14 are dependent on groundwater, if the local water table is within reach of the root systems of these taxa (generally within 10 m of the ground surface). The obligate phreatophyte *Melaleuca argentea* is known from the Study Area, however only from three locations. It is not common or widespread at any of these locations. In one, there appears to be an extended period of seepage after significant rainfall events; this therefore may be from surface water infiltration rather than groundwater. Another location is within an artificial drain area in proximity to the Wodgina camp that is being influenced by anthropogenic factors, and therefore this location also may not be associated with shallow groundwater. *Melaleuca glomerata* is also known to occur at three locations in VU 14, while *Eucalyptus victrix* and *Melaleuca linophylla* are common in this VU. However, available evidence indicates that vegetation that is groundwater dependent is not extensive in the Study Area. It should be noted that depth to groundwater within elevated parts of Wodgina (main range) is generally at least 20 m from the surface (Golder 2018), and therefore would not be accessible to any occurrences of VU 14 in these areas.

5.2.2.6 Vegetation Condition

The majority (96.8 %) of the mapped vegetation in the Study Area (which comprises equivalent to 85.6 % of the entire Study Area) was rated as 'Excellent' (EPA 2016a; Appendix C) as there was no or little evidence of impact to vegetation composition as a result of human activities, or there were only low levels of introduced (weed) taxa. Table 12 presents the area (ha) of each VU and corresponding condition rating mapped in the Study Area.

The vegetation within VU 14 recorded substantial areas (56.0 % of total extent mapped) of vegetation rated as 'Good' or 'Poor'. These areas generally displayed obvious signs of impacts to structure and species composition, primarily as a result of cattle trampling and grazing, and the presence of moderate to large infestations of invasive weeds, particularly *Aerva javanica* and *Cenchrus ciliaris*. There were also some other small areas of other VUs mapped as 'Very Good' and 'Good' due to the presence of weed infestations (particularly *Aerva javanica*) and the presence mechanical disturbance associated with historical mining activities.

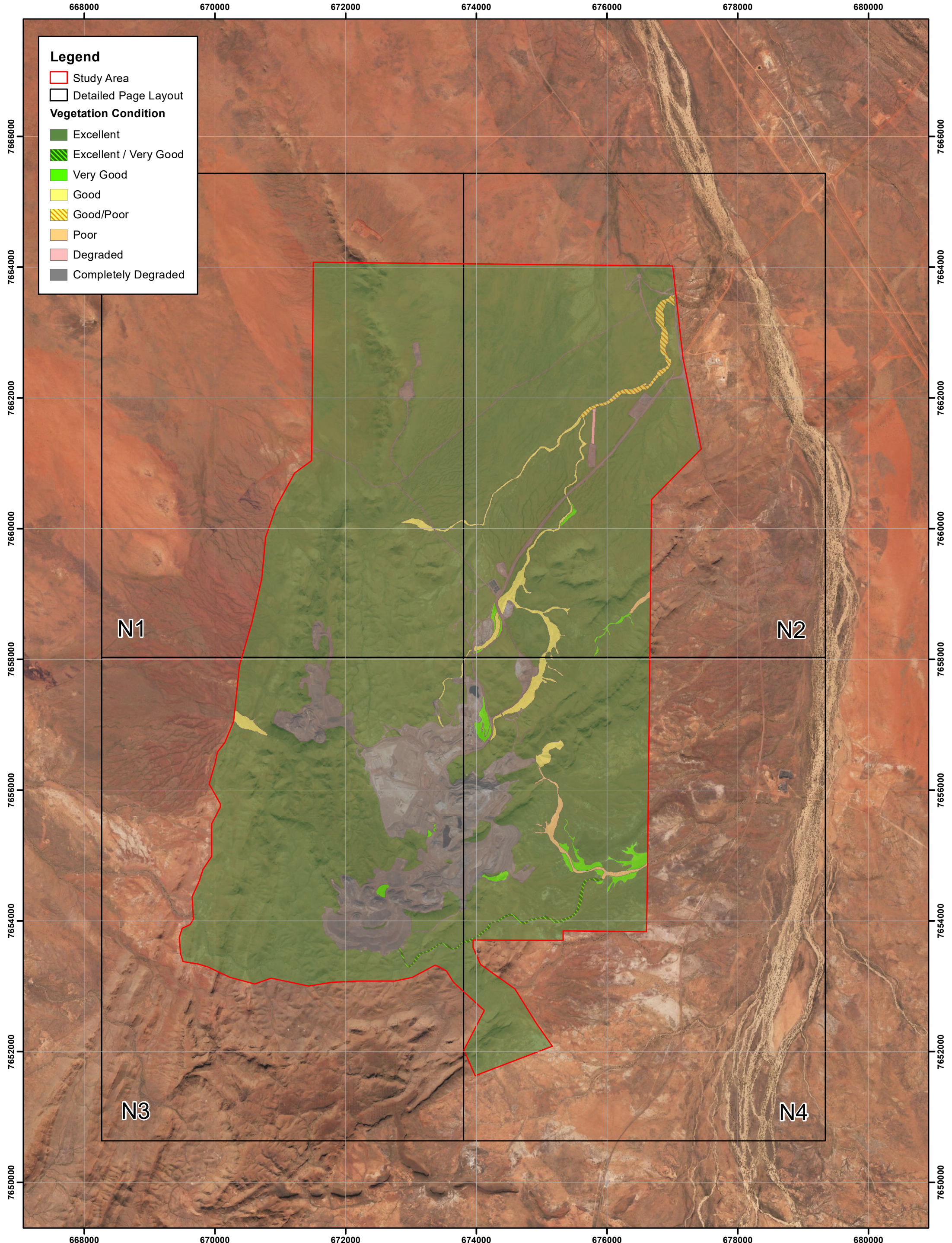
Some areas required mapping as mosaics of vegetation condition ratings, including areas mapped as 'Excellent/Very Good', and 'Good/Poor'. Such areas were primarily in drainage lines, and were variable in condition depending on usage by cattle, and consequential weed infestations. Time constraints prevented field investigation to determine accurate condition boundaries in these areas, and therefore mapping as a mosaic was considered the most pragmatic approach in these situations.

Areas rated as 'Degraded' and 'Completely Degraded' comprise 11.6 % of the entire Study Area; however, these ratings were only assigned to areas mapped as Degraded Land or Cleared (as per Section 5.2.2.3); no intact vegetation received these rating.

An overview of vegetation condition mapping polygons is presented in Figure 13, with detailed vegetation condition mapping presented in Appendix N.

Table 12: Vegetation Condition Types Mapped in the Study Area

VU	Area (ha)	Vegetation Condition Rating							
		Excellent (E)	Excellent/Very Good (E/VG)	Very Good (VG)	Good (G)	Good/Poor (G/P)	Poor (P)	Degraded (D)	Completely Degraded (CD)
1	300.41	300.41	-	-	-	-	-	-	-
2	834.55	834.55	-	-	-	-	-	-	-
3	250.78	248.32	-	2.47	-	-	-	-	-
4	324.34	324.34	-	-	-	-	-	-	-
5	374.99	371.64	-	3.36	-	-	-	-	-
6	215.41	215.41	-	-	-	-	-	-	-
7	369.86	366.37	-	3.49	-	-	-	-	-
8	134.15	134.15	-	-	-	-	-	-	-
9	1388.78	1371.85	-	9.59	7.34	-	-	-	-
10	1240.41	1240.41	-	-	-	-	-	-	-
11	185.53	158.16	-	27.38	-	-	-	-	-
12	59.67	59.67	-	-	-	-	-	-	-
13	57.21	57.21	-	-	-	-	-	-	-
14	209.31	72.57	15.88	3.55	75.87	21.84	19.60	-	-
15	15.61	15.61	-	-	-	-	-	-	-
D	2.40	0.00	-	-	-	-	-	2.40	-
C	781.69	0.00	-	-	-	-	-	-	781.69
Total	6745.11	5770.67	15.88	49.83	83.20	21.84	19.60	2.40	781.69



Legend

- Study Area
- Detailed Page Layout
- Vegetation Condition**
- Excellent
- Excellent / Very Good
- Very Good
- Good
- Good/Poor
- Poor
- Degraded
- Completely Degraded

N1

N2

N3

N4



Overview of Vegetation Condition of the Study Area

Author: David Coultas
 WEC Ref: MRL19-19-04
 Filename: MRL19-19-04-f13.mxd
 Projection: GDA 1994 MGA Zone 50

Figure
13

This map should only be used in conjunction with WEC report MRL19-19-04.

Revision: 0 - 4 Apr 2020

Scale: 1:50,000 (A3)

6. DISCUSSION

The Study Area is considered to have moderate diversity in terms of taxon richness, with 300 discrete taxa recorded; this was generally expected given its location in the north of the Pilbara region, and the results of other surveys, including by Woodman Environmental, in the surrounding region. However, the presence of a relatively wide variety of habitat types resulted in somewhat higher diversity than what would be expected in nearby local areas; this is considered to be a function of the Wodgina area being a relatively small but steep, isolated range surrounded by plains and large drainage features. Similar to the flora of the Study Area, the diversity of VUs within the Study Area is considered to be moderate, but likely slightly higher than surrounding areas for the same reasons outlined above.

Six significant flora taxa are known from the Study Area including five DBCA-classified Priority flora taxa and one taxon considered significant for other reasons as per EPA (2016a, b) (discussed in Section 5.2.1.5). *Euphorbia clementii* (P3) and *Heliotropium muticum* (P3) are both known from a relatively large number of records and considerable ranges and both have a number of records within 10 km of the Study Area. *Triodia chichesterensis* (P3) is known from a fairly low number of records over a somewhat limited range (13 records over 91 km); however, this is considered to be because of a lack of survey, and also a complex taxonomic history, with this species only being described in 2017. Although the number of individuals estimated to occur in the Study Area is considerable, there are almost certainly similarly large populations in areas to the east of the Study Area. The discovery of *Abutilon* aff. *hannii* in the Study Area increases the number of known populations for this entity; however, without publication of a revision of the genus, the true significance of this taxon cannot be determined with certainty.

The presence of *Terminalia supranitifolia* (P3) and *Vigna triodiophila* (P3) in the Study Area is of particular interest. Both have distributions concentrated in the western Pilbara, particularly around Karratha, with the populations in the Study Area being significantly disjunct from the main area of distribution. It is unclear as to whether there are populations in intervening areas, or whether their presence in the Study Area is a true disjunction driven by a contraction of range due to changing climate, or by random dispersal to a similar habitat and climatic niche. In any event, the Study Area populations appear to represent the eastern range end for both taxa. It should be noted that the areas to the west and south of Wodgina in particular appear to be very poorly botanically-explored (WA Herbarium 1998-), although it is unknown if appropriate habitat exists in these areas.

It is also of interest that the recording of a number of species in sandy areas at Wodgina represents somewhat disjunct records for such species. This includes *Heliotropium vestitum*, *Heliotropium diversifolium* and *Halgania solanacea* var. *solanacea*, all of which have been recorded in the general area previously. These species are generally found in areas east of Wodgina that have more extensive sandplains (WA Herbarium 1998-). As discussed above, these may not be true disjunctions, as the surrounding areas are very poorly botanically-explored.

Extensive searching for all significant flora taxa previously recorded in the Study Area, or considered to potentially occur within the Study Area, was undertaken. It is therefore considered unlikely that populations of significant flora taxa other than those recorded in 2018 and 2019 occur in the Study Area. It is considered likely that further locations of those significant taxa recorded in 2018 and 2019 do occur in the Study Area, however, as not all suitable habitat for all taxa has been searched.

As noted in Section 5.2, fire has likely had a significant effect on the results of the surveys in the Study Area. Fire is a strong driver of species composition in the Pilbara; this effect is especially prominent in the presence of several significant flora taxa, particularly *Euphorbia clementii* (P3), which is almost absent from areas in which it has been recorded in only a few years post-fire. This has potential flow-on effects in terms of the floristic analysis (through the misclassification of quadrats), and the ability to confidently map vegetation across the Study Area. This is compounded by issues such as low taxon diversity of the northern Pilbara, as well as the absence of geological preference in the majority of taxa (e.g. *Triodia epactia*, which occurs on almost all geological features in the Study Area) resulting in less than optimal classification results and manual re-assignment of quadrats within analyses. Despite these issues, the sampling strategy and field verification work undertaken provides confidence that the VUs and VU mapping polygons presented in this report adequately characterise the vegetation of the Study Area based on available data and are suitable for use in future impact assessments related to the Study Area.

None of the VUs mapped in the Study Area are considered to represent any formally listed TECs or PECs. It is also considered likely that none of the VUs are significant for any other reasons. All VUs are likely to be present outside the Study Area based on taxonomic composition and interpretation of vegetation and topographical patterns on aerial photography. The absence of a regional dataset also makes assessment of the significance of the vegetation of the Pilbara particularly problematic.

The majority of the vegetation in the Study Area was rated and mapped as being in Excellent condition, with little to no historical mechanical disturbance and an absence or low levels of introduced flora taxa. However, the majority of larger drainage features, including creeks and flow lines, had lower condition ratings as a result of the presence of high densities of aggressive introduced taxa and high grazing and trampling impacts from cattle.

7. REFERENCES

- Anderson, B.M., Thiele, K.R. and Barrett, M.D. (2017)
A revision of the *Triodia basedowii* species complex and close relatives (Poaceae: Chloridoideae). *Australian Systematic Botany* 30: 197-229.
- AQ2 Pty Ltd (2015)
Coondewanna Flats Eco-Hydrology Review and Conceptual Model. Unpublished report prepared for BHPB Iron Ore, January 2015
- Atlas of Living Australia (ALA) (2019)
The Australasian Virtual Herbarium. Council of Heads of Australasian Herbaria. Available: <http://avh.chah.org.au>. Last accessed August, 2019.
- Australian Weeds Committee (AWC) (2019)
Weeds Australia - Weeds of National Significance. Available: <http://www.weeds.org.au/WoNS/>. Last accessed August, 2019.
- Beard, J. S. (1975)
Vegetation Survey of Western Australia, Pilbara 1:1 000 000. Map and Explanatory Notes to Sheet 7. Published by University of Western Australia Press, Perth.
- Beard, J.S. (1990)
Plant Life of Western Australia. Kangaroo Press, Perth.
- Belbin, L. and Collins, A. (2009)
PATN. Version 3.12, Blatant Fabrications Pty Ltd.
- BHP (1997)
Newman satellite development mining of orebody 23 below the water table. Consultative Environmental Review. Unpublished report.
- Bureau of Meteorology (2019a)
Frequently Asked Questions – Tropical Cyclones. Available: <http://www.bom.gov.au/cyclone/faq/index.shtml#definitions>. Sourced May, 2018.
- Bureau of Meteorology (2019b)
Climate Statistics for Australian Locations – Indee Station / Marble Bar. Available: <http://www.bom.gov.au/climate/data/>. Sourced August, 2019.
- Chao, A. (1987)
Estimating the population size for capture-recapture data with unequal catchability. *Biometrics* 43:783-791.

Commonwealth of Australia (2012)

Interim Biogeographic Regionalisation for Australia, Version 7. Department of Sustainability, Environment, Water, Population and Communities. Available: <http://www.environment.gov.au/parks/nrs/science/bioregion-framework/ibra/index.html#ibra>

Commonwealth of Australia (2013)

Matters of National Environmental Significance. Significant Impact Guidelines. EPBC Act Policy Statement 1.1.

Dames and Moore (1989)

Wodgina Project Supplementary Report: Flora and Fauna Assessment. Unpublished report prepared for Pancontinental Mining Limited (Report ref. 10850-009-071), May 1989.

Department of Biodiversity, Conservation and Attractions (DBCA) (2007-)

NatureMap: Mapping Western Australia's Biodiversity. Available: <https://naturemap.dpaw.wa.gov.au/>. Last accessed August, 2019.

Department of Biodiversity, Conservation and Attractions (DBCA) (as Department of Parks and Wildlife, DPaW) (2013a)

Definitions, Categories and Criteria for Threatened and Priority Ecological Communities. Current January 2013. Available: https://www.dpaw.wa.gov.au/images/plants-animals/threatened-species/definitions_categories_and_criteria_for_threatened_and_priority_ecological_communities.pdf

Department of Biodiversity, Conservation and Attractions (DBCA) (as Department of Environment and Conservation, DEC) (2013b)

Weed Prioritisation Process for DPaW (formerly DEC) – “An integrated approach to Weed Management on DPaW-managed lands in WA”. Current November 2013. Available: https://www.dpaw.wa.gov.au/images/documents/plants-animals/plants/weeds/weed_prioritisation_process.pdf.

Department of Biodiversity, Conservation and Attractions (DBCA) (as Department of the Parks and Wildlife, DPaW) (2014)

Ecological Impact and Invasiveness Ratings from the Department of Parks and Wildlife Pilbara Region Species Prioritisation Process 2014. Available: <https://www.dpaw.wa.gov.au/plants-and-animals/plants/weeds/156-how-does-dpaw-manage-weeds>

Department of Biodiversity, Conservation and Attractions (DBCA) (2017)

Threatened and Priority Flora Report Form – Field Manual. Version 1.3, August 2017. Available: <https://www.dpaw.wa.gov.au/images/documents/plants-animals/monitoring/forms/threatened-priority-flora-field-manual.pdf>

- Department of Biodiversity, Conservation and Attractions (DBCA) (2018)
List of Threatened Ecological Communities (TECs) Endorsed by the Western Australian Minister for Environment. Department of Biodiversity, Conservation and Attractions, 28th June 2018
- Department of Biodiversity, Conservation and Attractions (DBCA) (2019a)
Priority Ecological Communities for Western Australia, Version 28. Species and Communities Program, Department of Biodiversity, Conservation and Attractions, 17th January 2019
- Department of Biodiversity, Conservation and Attractions (DBCA) (2019b)
Conservation Codes for Western Australian Flora and Fauna. Current 3rd January 2019. Available: https://www.dpaw.wa.gov.au/images/documents/plants-animals/threatened-species/Listings/conservation_code_definitions.pdf
- Department of Biodiversity, Conservation and Attractions (DBCA) (2019c)
Interrogation of the DBCA Threatened Ecological Communities and Priority Ecological Communities database, performed 11/06/2019. Reference: 04-0619EC.
- Department of Biodiversity, Conservation and Attractions (DBCA) (2019d)
Interrogation of the DBCA Western Australian Herbarium specimen database, Threatened and Priority Flora database and Threatened and Priority Flora List, performed 29/05/2019. Reference: 28-0519FL.
- Department of the Environment and Energy (DoEE) (2019)
Interrogation of Species Profile and Threats (SPRAT) Database using Protected Matters Search Tool. Queried 15/08/19, report reference 9XY38M. Available: <https://www.environment.gov.au/epbc/protected-matters-search-tool>.
- Department of Primary Industries and Regional Development (DPIRD) (2019)
Declared Organism Search. Available: <http://www.agric.wa.gov.au/organisms>. Last accessed August 2019.
- Department of Water (2010)
Lower De Grey River: ecological values and issues. Environmental Water Report series. Report no. 12. Government of Western Australia. Department of Water. January 2010.
- Dufrene, M. and Legendre, P. (1997)
Species Assemblages and Indicator Species: The need for a flexible asymmetrical approach. In: *Ecological Monographs* 67: 345-366.
- Environmental Protection Authority (EPA) (2016a)
Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment. EPA, Western Australia, December 2016.

- Environmental Protection Authority (EPA) (2016b)
Environmental Factor Guideline – Flora and Vegetation. Published 13th December 2016 (www.epa.wa.gov.au/).
- Executive Steering Committee for Australian Vegetation Information (ESCAVI) (2003)
Australian Vegetation Attribute Manual: National Vegetation Information System, Version 6.0. Department of the Environment and Heritage, Canberra.
- Golder (2018)
Wodgina Lithium Project Hydrogeological Characterisation of Wodgina Mine Site. Unpublished report prepared for Mineral Resources Limited, November 2018.
- Government of Western Australia (2018)
2017 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of December 2017. WA Department of Biodiversity, Conservation and Attractions. Available:
<https://catalogue.data.wa.gov.au/dataset/dbca-statewide-vegetation-statistics>
- Graham, J. (2001)
The root hydraulic architecture of Melaleuca argentea, PhD thesis. The University of Western Australia.
- Hussey, B.M.J, Keighery, G.J., Dodd, J. Lloyd, S.G. and Cousens, R.D. (2007)
Western Weeds – A Guide to the Weeds of Western Australia (2nd Ed.). The Weeds Society of Western Australia (Inc.), Victoria Park, Western Australia.
- Kendrick, P. and McKenzie, N. (2001)
A Biodiversity Audit of Western Australia's 53 Biogeographic Subregions in 2002 - Pilbara 1 (PIL1 – Chichester Subregion). Published by the Department of Conservation and Land Management, November 2001.
- Loomes, R (2010a)
Determining water level ranges of Pilbara riparian species, Environmental water report series, report no. 17, Department of Water, Perth.
- Loomes, R., (2010b)
Lower Fortescue River - ecological values and issues, Environmental water report series, Report No. 15 Department of Water, Government of Western Australia, Perth.
- Loomes, R., and Braimbridge, M. (2010)
Lower De Grey River: ecological values and issues, Environmental water report series, Report No. 12 Department of Water, Government of Western Australia, Perth.
- Markey, A.S. and Dillon, S.J. (2008)
Flora and vegetation of the banded iron formations of the Yilgarn Craton: the central Tallering Land System. *Conservation Science W. Aust.* 7 (1): 121–149.

- Mattiske Consulting Pty Ltd (2000)
Flora, Vegetation and Fauna of the Proposed Expansion at Wodgina. Unpublished report prepared for Sons of Gwalia Ltd, November 2000.
- McCune, B. and Mefford, M.J. (2011)
PC-Ord. Multivariate Analysis of Ecological Data, Version 6.08. MjM Software, Glenden Beach, Oregon U.S.A.
- Mueller-Dombois, D. and Ellenberg, H. (1974)
Aims and Methods of Vegetation Ecology. Wiley and Sons, Canada.
- Outback Ecology (2008)
Talison Minerals Wodgina Operations and Mt Francisco: Vegetation and Flora Survey and DRF and Priority Targeted Search. Unpublished report prepared for Talison Minerals Wodgina Operations, August 2008.
- Outback Ecology (2009)
Wodgina DSO Project Flora and Vegetation Assessment. Unpublished report prepared for Atlas Iron Proprietary Limited, October 2008.
- Shepherd, D., Beeston, G. and Hopkins, A. (2002)
Native Vegetation in Western Australia. Extent, Type and Status. Resource Management Technical Report 249. Department of Agriculture.
- Sneath, P.H.A. and Sokal, R.R. (1973)
Numerical Taxonomy: The Principles and Practice of Numerical Classification. Published by Freeman, San Francisco.
- Van Vreeswyk, A.M.E., Payne, A.L., Leighton, K.A. and Hennig, P. (2004)
An Inventory and Condition Survey of the Pilbara Region of Western Australia. Technical Bulletin #92. Department of Agriculture. Government of Western Australia.
- Western Australian Herbarium (WA Herbarium) (1998-)
Florabase. Available: <https://florabase.dpaw.wa.gov.au/>. Last accessed August, 2019.
- Western Botanical (2017)
Interim Report on the Flora and Vegetation of the Cassiterite Pit Extension and EWL Extension. Unpublished report (Report ref. WB877) prepared for Rapallo Group Pty Ltd and Mineral Resources Limited, December 2017.
- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2011a)
Turner River Hub Project Flora, Vegetation and Mangal Studies. Unpublished report (Report ref. Atlas10-27-01) prepared for Atlas Iron Proprietary Limited, December 2011.

- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2011b)
Wodgina Ore Stockpile Area Flora and Vegetation Assessment. Unpublished report (Report ref. Atlas11-56-01) prepared for Atlas Iron Proprietary Limited, December 2011.
- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2012a)
Abydos Direct Shipping Ore Project – Flora and Vegetation Studies. Unpublished report (Atlas11-05-01) prepared for Atlas Iron Proprietary Limited, March 2012.
- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2012b)
Wodgina Proposed Tower Base and Access Road Flora and Vegetation Assessment. Unpublished report (Report ref. Atlas12-11-01) prepared for Atlas Iron Proprietary Limited, August 2012.
- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2012c)
Flora and Vegetation Studies for the Hercules Project. Unpublished report (Report ref. Atlas11-24-01) prepared for Atlas Iron Proprietary Limited, November 2012.
- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2012d)
Mt Webber DSO Project – Flora and Vegetation Assessment. Unpublished report (Atlas12-05-01) prepared for Atlas Iron Proprietary Limited, August 2012.
- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2013a)
Hercules DSO Project Conservation Significant Flora Assessment. Unpublished report (Report ref. Atlas12-02-01) prepared for Atlas Iron Proprietary Limited, March 2013.
- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2013b)
Wodgina Proposed Tower Base and Access Road Flora and Vegetation Assessment – Addendum Report. Unpublished report (Report ref. Atlas13-13-01) prepared for Atlas Iron Proprietary Limited, March 2013.
- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2013c)
Great Northern Highway Upgrade Project Flora and Vegetation Assessment. Unpublished report (Report ref. Atlas13-07-01) prepared for Atlas Iron Proprietary Limited, November 2013.
- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2014a)
McPhee Creek Rail Spur Project – Flora and Vegetation Assessment. Unpublished report (Atlas14-17-01) prepared for Atlas Iron Proprietary Limited, October 2014.
- Woodman Environmental Consulting Pty Ltd (2014b)
Pardoo Direct Shipping Ore Project – Groundwater Drawdown – Vegetation Health Monitoring 2014. Unpublished report (Atlas14-10-01 Rev 0), prepared for Atlas Iron Ltd, October 2014.

- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2016)
Corunna Downs Project, Level 2 Flora and Vegetation Assessment. Unpublished report (Atlas16-15-01) prepared for Atlas Iron Proprietary Limited, December 2016.
- Woodman Environmental Consulting Pty Ltd (2018)
2018 Rehabilitation Monitoring – Wodgina Iron Ore Project. Unpublished report prepared for Atlas Iron Limited, August 2018.
- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2019a)
Wodgina Expansion Project Detailed Flora and Vegetation Assessment. Unpublished report (Atlas18-37-01) prepared for Atlas Iron Proprietary Limited, May 2019
- Woodman Environmental Consulting Pty Ltd (Woodman Environmental) (2019b)
Changes to Wodgina Minesite Operations Significant Flora Targeted Survey. Unpublished report (Atlas19-19-01) prepared for Atlas Iron Proprietary Limited, May 2019.
- Woodman Environmental Consulting Pty Ltd (2019c)
Mt Webber Mine – Southern Haul Road Production Bores Groundwater Dependent Vegetation Assessment. Unpublished report (Atlas19-14-01 Rev D), prepared for Atlas Iron Ltd, August 2019.
- 360 Environmental Pty Ltd (360 Environmental) (2018a)
Wodgina Mine Site and Proposed Airstrip Flora, Vegetation and Fauna Report. Unpublished report (Report ref. 2548AB) prepared for Mineral Resources Limited, February 2018.
- 360 Environmental Pty Ltd (360 Environmental) (2018b)
Wodgina Mine and Additional Gas Pipeline Flora, Vegetation, Fauna and Targeted Northern Quoll Report. Unpublished report (Report ref. 2596AB) prepared for Mineral Resources Limited, May 2018.
- 360 Environmental Pty Ltd (360 Environmental) (2018c)
Wodgina Mine Flora, Vegetation and Fauna Assessment Addendum. Unpublished report (Report ref. 2745AB) prepared for Mineral Resources Limited, July 2018.
- 360 Environmental Pty Ltd (360 Environmental) (2018d)
Wodgina Aerodrome Detailed Flora and Vegetation Survey. Unpublished report (Report ref. 2825AC) prepared for Mineral Resources Limited, July 2018.

Appendix A: Conservation Codes for Western Australian Flora and Fauna (DBCAs 2019b)



Department of Biodiversity,
Conservation and Attractions

CONSERVATION CODES

For Western Australian Flora and Fauna

Threatened, Extinct and Specially Protected fauna or flora¹ are species² which have been adequately searched for and are deemed to be, in the wild, threatened, extinct or in need of special protection, and have been gazetted as such.

The *Wildlife Conservation (Specially Protected Fauna) Notice 2018* and the *Wildlife Conservation (Rare Flora) Notice 2018* have been transitioned under regulations 170, 171 and 172 of the *Biodiversity Conservation Regulations 2018* to be the lists of Threatened, Extinct and Specially Protected species under Part 2 of the *Biodiversity Conservation Act 2016*.

Categories of Threatened, Extinct and Specially Protected fauna and flora are:

T **Threatened species**

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).

Threatened fauna is that subset of 'Specially Protected Fauna' listed under schedules 1 to 3 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for Threatened Fauna.

Threatened flora is that subset of 'Rare Flora' listed under schedules 1 to 3 of the *Wildlife Conservation (Rare Flora) Notice 2018* for Threatened Flora.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

CR **Critically endangered species**

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*".

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.

EN **Endangered species**

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*".

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.

VU **Vulnerable species**

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*".

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.

Conservation codes for Western Australian flora and fauna

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 Extinct species

Species where “*there is no reasonable doubt that the last member of the species has died*”, and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).

Published as presumed extinct under schedule 4 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for extinct fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for extinct flora.

EW Extinct in the wild species

Species that “*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*”, and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act).

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.

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.

MI Migratory species

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).

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 *Convention on the Conservation of Migratory Species of Wild Animals* (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.

Published as migratory birds protected under an international agreement under schedule 5 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

CD Species of special conservation interest (conservation dependent fauna)

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 *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

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 *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

Conservation codes for Western Australian flora and fauna

P **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.

1 **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.

2 **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.

3 **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.

4 **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.

¹ The definition of flora includes algae, fungi and lichens

²Species includes all taxa (plural of taxon - a classificatory group of any taxonomic rank, e.g. a family, genus, species or any infraspecific category i.e. subspecies or variety, or a distinct population).

Last updated 3 January 2019

Appendix B: Definitions, Categories and Criteria for Threatened and Priority Ecological Communities (DBCA 2013a)

1. GENERAL DEFINITIONS

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

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

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

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

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

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

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

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

Adequately Surveyed is defined as follows:

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

Community structure is defined as follows:

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

Definitions of Modification and Destruction of an ecological community:

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

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

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

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

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

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

Threatening processes are defined as follows:

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

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

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

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

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

Presumed Totally Destroyed (PD)

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

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

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

Critically Endangered (CR)

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

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

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

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

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

Endangered (EN)

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

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

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

- i) the estimated geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is likely in the short term future (within approximately 20 years);
- ii) modification throughout its range is continuing such that in the short term future (within approximately 20 years) the community is unlikely to be capable of being substantially restored or rehabilitated.

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

- i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the short term future (within approximately 20 years);
- ii) there are few occurrences, each of which is small and/or isolated and all or most occurrences are very vulnerable to known threatening processes;
- iii) there may be many occurrences but total area is small and all or most occurrences are small and/or isolated and very vulnerable to known threatening processes.

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

Vulnerable (VU)

An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet

been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range.

An ecological community will be listed as **Vulnerable** when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing a high risk of total destruction or significant modification in the medium (within approximately 50 years) to long-term future. This will be determined on the basis of the best available information by it meeting **any one or more** of the following criteria (A, B or C):

- A) The ecological community exists largely as modified occurrences that are likely to be capable of being substantially restored or rehabilitated.
- B) The ecological community may already be modified and would be vulnerable to threatening processes, is restricted in area and/or range and/or is only found at a few locations.
- C) The ecological community may be still widespread but is believed likely to move into a category of higher threat in the medium to long term future because of existing or impending threatening processes.

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

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

Priority One: Poorly-known ecological communities:

Ecological communities that are known from very few occurrences with a very restricted distribution (generally ≤ 5 occurrences or a total area of ≤ 100 ha). Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.

Priority Two: Poorly-known ecological communities:

Communities that are known from few occurrences with a restricted distribution (generally ≤ 10 occurrences or a total area of ≤ 200 ha). At least some occurrences are not believed to be under immediate threat (within approximately 10 years) of destruction or degradation. Communities may be included if they are comparatively well known from one or more

localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.

Priority Three: Poorly known ecological communities:

- (i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or:
- (ii) Communities known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat (within approximately 10 years), or;
- (iii) Communities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, inappropriate fire regimes, clearing, hydrological change etc.

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

Priority Four: Ecological communities:

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.

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

Priority Five: Conservation Dependent ecological communities:

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

Current as of January 2013

Appendix C: Vegetation Condition Scale for the Eremaean and Northern Botanical Provinces

Condition Ranking	Description
E (Excellent)	Pristine or nearly so, no obvious signs of damage caused by human activities since European settlement.
VG (Very Good)	Some relatively slight signs of damage caused by human activities since European settlement. For example, some signs of damage to tree trunks caused by repeated fire, the presence of some relatively non-aggressive weeds, or occasional vehicle tracks.
G (Good)	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.
P (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.
VP (Very Poor)	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
D (Completely Degraded)	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 D: Results of Search of the Department of the Environment and Energy Species Profile and Threats (SPRAT) Database (DoEE 2019)



EPBC Act Protected Matters Report

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

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

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 15/08/19 12:57:25

[Summary](#)

[Details](#)

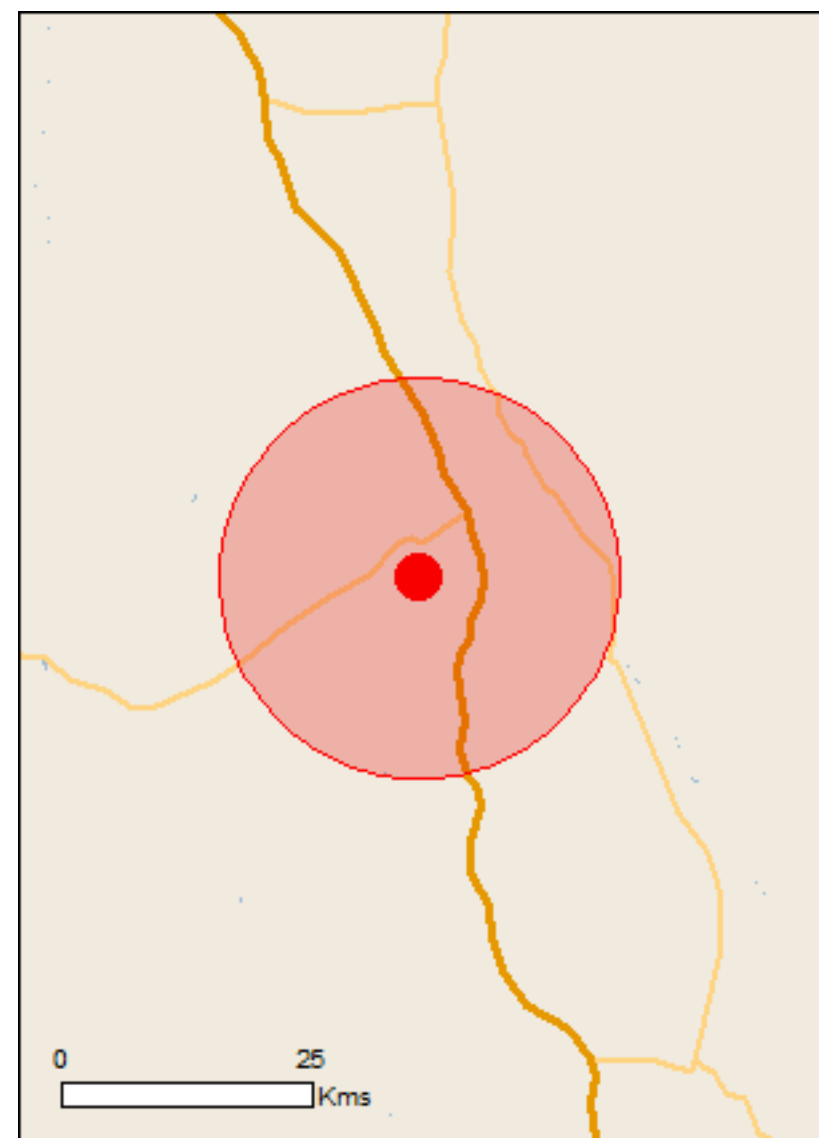
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

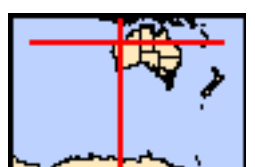
[Acknowledgements](#)



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

[Coordinates](#)

Buffer: 20.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	9
Listed Migratory Species:	12

Other Matters Protected by the EPBC Act

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

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

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	18
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	None
Regional Forest Agreements:	None
Invasive Species:	11
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Species [\[Resource Information \]](#)

Name	Status	Type of Presence
------	--------	------------------

Birds

Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
---	-----------------------	--

Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
---	-----------------------	--

Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat may occur within area
--	------------	--

Rostratula australis Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
--	------------	--

Mammals

Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
---	------------	---

Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area
---	------------	--

Macrotis lagotis Greater Bilby [282]	Vulnerable	Species or species habitat known to occur within area
---	------------	---

Rhinonictes aurantia (Pilbara form) Pilbara Leaf-nosed Bat [82790]	Vulnerable	Species or species habitat known to occur within area
---	------------	---

Reptiles

Liasis olivaceus barroni Olive Python (Pilbara subspecies) [66699]	Vulnerable	Species or species habitat likely to occur within area
---	------------	--

Listed Migratory Species [\[Resource Information \]](#)

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
------	------------	------------------

Migratory Marine Birds

Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
---	--	--

Migratory Terrestrial Species

Name	Threatened	Type of Presence
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Species or species habitat known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Chrysococcyx osculans Black-eared Cuckoo [705]		Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area

Extra Information

Invasive Species

[[Resource Information](#)]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
Birds		

Name	Status	Type of Presence
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Mammals		
Camelus dromedarius Dromedary, Camel [7]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Equus asinus Donkey, Ass [4]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat likely to occur within area

Caveat

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

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

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

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

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

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-21.17544 118.6615

Acknowledgements

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

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

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

Please feel free to provide feedback via the [Contact Us](#) page.

Appendix E: Vascular Plant Taxa Amalgamated in or Omitted from the Floristic Analysis

Description	Taxon	Reasoning
Amalgamated Taxa	<i>Cajanus cinereus</i> , <i>Cajanus pubescens</i>	Unclear taxonomy
	<i>Clerodendrum tomentosum</i> , <i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	Variants could not be consistently positively identified because of inadequate material
	<i>Haloragis gossei</i> , <i>Haloragis gossei</i> var. <i>gossei</i>	Variants could not be consistently positively identified because of inadequate material
	<i>Trichodesma zeylanicum</i> , <i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	Variants could not be consistently positively identified because of inadequate material
Omitted taxa	<i>Abutilon</i> sp.	Could not be positively identified because of inadequate material
	<i>Acacia</i> sp.	Could not be positively identified because of inadequate material
	? <i>Corymbia hamersleyana</i>	Could not be positively identified because of inadequate material
	? <i>Dysphania</i> sp.	Could not be positively identified because of inadequate material
	<i>Euphorbia</i> ? <i>trigonosperma</i>	Could not be positively identified because of inadequate material
	? <i>Goodenia stobbsiana</i>	Could not be positively identified because of inadequate material
	<i>Hibiscus</i> ? <i>leptocladus</i>	Could not be positively identified because of inadequate material
	? <i>Polymeria ambigua</i>	Could not be positively identified because of inadequate material
	<i>Ptilotus</i> ? <i>auriculifolius</i>	Could not be positively identified because of inadequate material
	<i>Ptilotus</i> ? <i>exaltatus</i>	Could not be positively identified because of inadequate material
	? <i>Ptilotus helipteroides</i>	Could not be positively identified because of inadequate material
	? <i>Schenkia australis</i>	Could not be positively identified because of inadequate material
<i>Senna</i> ? <i>glaucifolia</i>	Could not be positively identified because of inadequate material	

Appendix F: Vascular Plant Taxa Recorded in the Study Area

Family	Taxon	2018/2019 Survey	Study Area*
Aizoaceae	<i>Trianthema pilosum</i>	X	
	* <i>Trianthema portulacastrum</i>		X
	<i>Trianthema triquetrum</i>	X	
Amaranthaceae	* <i>Aerva javanica</i>	X	
	<i>Amaranthus interruptus</i>		X
	<i>Amaranthus undulatus</i>	X	
	<i>Gomphrena cunninghamii</i>	X	
	<i>Ptilotus aevroides</i>		X
	<i>Ptilotus arthrolasius</i>	X	
	<i>Ptilotus astrolasius</i>	X	
	<i>Ptilotus auriculifolius</i>	X	
	<i>Ptilotus axillaris</i>	X	
	<i>Ptilotus calostachyus</i>	X	
	<i>Ptilotus clementii</i>	X	
	<i>Ptilotus exaltatus</i>	X	
	<i>Ptilotus fusiformis</i>	X	
	<i>Ptilotus incanus</i>	X	
	<i>Ptilotus obovatus</i>		X
<i>Ptilotus polystachyus</i>	X		
Apocynaceae	* <i>Calotropis procera</i>	X	
Araliaceae	<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	X	
Asteraceae	* <i>Flaveria trinervia</i>	X	
	<i>Peripleura virgata</i>	X	
	<i>Pluchea dentex</i>	X	
	<i>Pluchea ferdinandi-muelleri</i>	X	
	<i>Pluchea rubelliflora</i>	X	
	<i>Pluchea tetranthera</i>	X	
	<i>Pterocaulon sphacelatum</i>	X	
	<i>Pterocaulon sphaeranthoides</i>	X	
	<i>Rhodanthe margarethae</i>	X	
	<i>Streptoglossa decurrens</i>	X	
	<i>Streptoglossa odora</i>		X
Boraginaceae	<i>Halgania solanacea</i> var. <i>solanacea</i> ms	X	
	<i>Heliotropium chrysocarpum</i>	X	
	<i>Heliotropium crispatum</i>	X	
	<i>Heliotropium cunninghamii</i>	X	
	<i>Heliotropium diversifolium</i>	X	
	<i>Heliotropium muticum</i> (P3)	X	
	<i>Heliotropium pachyphyllum</i>	X	
	<i>Heliotropium skeleton</i>	X	
	<i>Heliotropium tenuifolium</i>	X	
	<i>Heliotropium vestitum</i>	X	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	X		
Brassicaceae	<i>Lepidium ?pholidogynum</i>	X	
Byblidaceae	<i>Byblis pilbarana</i>	X	

Family	Taxon	2018/2019 Survey	Study Area*
Campanulaceae	<i>Wahlenbergia tumidifructa</i>	x	
Caryophyllaceae	<i>Polycarpaea corymbosa</i>	x	
	<i>Polycarpaea holtzei</i>	x	
	<i>Polycarpaea longiflora</i>	x	
Celastraceae	<i>Stackhousia muricata</i>	x	
Chenopodiaceae	<i>Dysphania kalpari</i>	x	
	<i>Dysphania plantaginella</i>		x
	<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	x	
	<i>Dysphania sphaerosperma</i>	x	
	<i>Maireana</i> sp.	x	
	<i>Salsola australis</i>	x	
	<i>Sclerolaena densiflora</i>	x	
Cleomaceae	<i>Cleome uncifera</i> subsp. <i>uncifera</i>	x	
	<i>Cleome viscosa</i>	x	
Combretaceae	<i>Terminalia circumalata</i>	x	
	<i>Terminalia supranitifolia</i> (P3)	x	
Convolvulaceae	<i>Bonamia alatisemina</i>	x	
	<i>Bonamia erecta</i>	x	
	<i>Bonamia media</i>	x	
	<i>Bonamia pannosa</i>	x	
	<i>Bonamia pilbarensis</i>	x	
	<i>Evolvulus alsinoides</i> var. <i>decumbens</i>		x
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	x	
	<i>Ipomoea muelleri</i>	x	
	<i>Operculina aequisepala</i>	x	
	<i>Polymeria ambigua</i>	x	
Cucurbitaceae	<i>Cucumis variabilis</i>	x	
	<i>Trichosanthes cucumerina</i> var. <i>cucumerina</i>	x	
Cyperaceae	<i>Bulbostylis barbata</i>	x	
	<i>Cyperus hesperius</i>	x	
	<i>Cyperus pulchellus</i>	x	
	<i>Cyperus squarrosus</i>	x	
	<i>Cyperus vaginatus</i>	x	
	<i>Fimbristylis dichotoma</i>	x	
	<i>Fimbristylis elegans</i>		x
	<i>Fimbristylis rara</i>	x	
	<i>Fimbristylis simulans</i>	x	
Elatinaceae	<i>Bergia pedicellaris</i>	x	
Euphorbiaceae	<i>Adriana tomentosa</i> var. <i>tomentosa</i>	x	
	<i>Euphorbia australis</i> var. <i>subtomentosa</i>	x	
	<i>Euphorbia biconvexa</i>	x	
	<i>Euphorbia careyi</i>	x	
	<i>Euphorbia clementii</i> (P3)	x	
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	x	
	<i>Euphorbia trigonosperma</i>	x	

Family	Taxon	2018/2019 Survey	Study Area*
Euphorbiaceae cont.	<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	x	
	<i>Mallotus nesophilus</i>		x
Fabaceae	<i>Acacia acradenia</i>	x	
	<i>Acacia ancistrocarpa</i>	x	
	<i>Acacia ancistrocarpa</i> x <i>arida</i>		x
	<i>Acacia ancistrocarpa</i> x <i>orthocarpa</i>	x	
	<i>Acacia ancistrocarpa</i> x <i>tumida</i> var. <i>pilbarensis</i>	x	
	<i>Acacia arida</i>		x
	<i>Acacia bivenosa</i>	x	
	<i>Acacia colei</i> var. <i>colei</i>		x
	<i>Acacia coriacea</i> subsp. <i>pendens</i>	x	
	<i>Acacia inaequilatera</i>	x	
	<i>Acacia maitlandii</i>	x	
	<i>Acacia orthocarpa</i>	x	
	<i>Acacia orthocarpa</i> x <i>ancistrocarpa</i>	x	
	<i>Acacia orthocarpa</i> x	x	
	<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	x	
	<i>Acacia sphaerostachya</i>	x	
	<i>Acacia spondylophylla</i>	x	
	<i>Acacia stellaticeps</i>	x	
	<i>Acacia synchronicia</i>	x	
	<i>Acacia trachycarpa</i>	x	
	<i>Acacia trachycarpa</i> x <i>tumida</i> var. <i>pilbarensis</i>		x
	<i>Acacia tumida</i> var. <i>pilbarensis</i>	x	
	<i>Alysicarpus muelleri</i>	x	
	<i>Cajanus pubescens</i>	x	
	<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	x	
	<i>Crotalaria novae-hollandiae</i> subsp. <i>novae-hollandiae</i>	x	
	<i>Cullen cinereum</i>		x
	<i>Cullen leucanthum</i>	x	
	<i>Cullen leucochaites</i>	x	
	<i>Cullen martinii</i>		x
	<i>Cullen stipulaceum</i>	x	
	<i>Desmodium filiforme</i>	x	
	<i>Glycine canescens</i>		x
	<i>Indigofera colutea</i>	x	
	<i>Indigofera linifolia</i>		x
	<i>Indigofera linnaei</i>	x	
	<i>Indigofera monophylla</i>	x	
	<i>Indigofera rugosa</i>	x	
	<i>Indigofera trita</i>	x	
	<i>Isotropis atropurpurea</i>	x	
	<i>Leptosema anomalum</i>	x	
	<i>Petalostylis labicheoides</i>	x	
	<i>Rhynchosia minima</i>	x	

Family	Taxon	2018/2019 Survey	Study Area*
Fabaceae cont.	<i>Senna artemisioides</i> subsp. <i>hemslsii</i> x <i>oligophylla</i>		x
	<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	x	
	<i>Senna curvistyla</i>	x	
	<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	x	
	<i>Senna glutinosa</i> subsp. <i>pruinosa</i>	x	
	<i>Senna glutinosa</i> subsp. x <i>luerssenii</i>	x	
	<i>Senna glutinosa</i> x	x	
	<i>Senna notabilis</i>	x	
	<i>Senna symonii</i>	x	
	<i>Senna venusta</i>	x	
	<i>Sesbania cannabina</i>	x	
	<i>Swainsona formosa</i>	x	
	<i>Swainsona stenodonta</i>	x	
	<i>Tephrosia clementii</i>	x	
	<i>Tephrosia densa</i>	x	
	<i>Tephrosia rosea</i> var. <i>clementii</i>	x	
	<i>Tephrosia supina</i>	x	
	<i>Tephrosia virens</i>	x	
	<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	x	
	<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	x	
	<i>Vigna triodiophila</i> (P3)	x	
	<i>Zornia albiflora</i>	x	
Goodeniaceae	<i>Dampiera candidans</i>	x	
	<i>Goodenia cusackiana</i>	x	
	<i>Goodenia forrestii</i>	x	
	<i>Goodenia lamprosperma</i>	x	
	<i>Goodenia microptera</i>	x	
	<i>Goodenia muelleriana</i>	x	
	<i>Goodenia stobbsiana</i>	x	
	<i>Goodenia triodiophila</i>	x	
	<i>Scaevola browniana</i> subsp. <i>browniana</i>	x	
	<i>Scaevola spinescens</i>	x	
	<i>Velleia connata</i>		x
Gyrostemonaceae	<i>Codonocarpus cotinifolius</i>	x	
Haloragaceae	<i>Gonocarpus ephemerus</i>	x	
	<i>Haloragis gossei</i>	x	
Lamiaceae	<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	x	
Lauraceae	<i>Cassytha capillaris</i>	x	
	<i>Cassytha filiformis</i>		x
Loganiaceae	<i>Mitrasacme connata</i>	x	
Lythraceae	<i>Ammannia baccifera</i>	x	
Malvaceae	<i>Abutilon</i> aff. <i>hannii</i>	x	
	<i>Abutilon</i> sp. Dioicum (A.A. Mitchell PRP 1618)	x	
	<i>Abutilon</i> sp. Pilbara (W.R. Barker 2025)	x	
	<i>Corchorus ?incanus</i> subsp. <i>incanus</i>		x

Family	Taxon	2018/2019 Survey	Study Area*
Malvaceae cont.	<i>Corchorus parviflorus</i>	x	
	<i>Corchorus tridens</i>		x
	<i>Gossypium australe</i>	x	
	<i>Gossypium robinsonii</i>		x
	<i>Hibiscus coatesii</i>	x	
	<i>Hibiscus goldsworthii</i>	x	
	<i>Hibiscus leptocladus</i>	x	
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	x	
	<i>Melhania oblongifolia</i>	x	
	<i>Seringia nephrosperma</i>	x	
	<i>Sida arenicola</i>	x	
	<i>Sida clementii</i>	x	
	<i>Sida fibulifera</i>	x	
	<i>Sida rohlenae</i> subsp. <i>rohlenae</i>	x	
	<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	x	
	<i>Triumfetta chaetocarpa</i>	x	
	<i>Triumfetta clementii</i>	x	
	<i>Triumfetta johnstonii</i>	x	
	<i>Triumfetta maconochieana</i>	x	
	<i>Triumfetta propinqua</i>	x	
<i>Triumfetta ramosa</i>	x		
<i>Waltheria indica</i>	x		
Menispermaceae	<i>Tinospora smilacina</i>	x	
Molluginaceae	<i>Trigastrotheca molluginea</i>	x	
Montiaceae	<i>Calandrinia pumila</i>	x	
	<i>Calandrinia stagnensis</i>	x	
Moraceae	<i>Ficus brachypoda</i>	x	
Myrtaceae	<i>Corymbia deserticola</i>	x	
	<i>Corymbia ferriticola</i>	x	
	<i>Corymbia hamersleyana</i>	x	
	<i>Corymbia zygophylla</i>	x	
	<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	x	
	<i>Eucalyptus victrix</i>	x	
	<i>Melaleuca argentea</i>	x	
	<i>Melaleuca glomerata</i>	x	
	<i>Melaleuca linophylla</i>	x	
	Nyctaginaceae	<i>Boerhavia burbridgeana</i>	x
<i>Boerhavia coccinea</i>		x	
<i>Boerhavia gardneri</i>		x	
<i>Boerhavia repleta</i>			x
<i>Boerhavia schomburgkiana</i>		x	
Oleaceae	<i>Jasminum didymum</i> subsp. <i>lineare</i>	x	
Onagraceae	<i>Ludwigia perennis</i>	x	
Orobanchaceae	<i>Striga curviflora</i>		x
	<i>Striga squamigera</i>	x	

Family	Taxon	2018/2019 Survey	Study Area*
Passifloraceae	* <i>Passiflora foetida</i> var. <i>hispida</i>	X	
Phyllanthaceae	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	X	
	<i>Notoleptopus decaisnei</i>	X	
	<i>Phyllanthus maderaspatensis</i>	X	
Plantaginaceae	<i>Stemodia grossa</i>	X	
	<i>Stemodia viscosa</i>	X	
Poaceae	<i>Aristida burbidgeae</i>	X	
	<i>Aristida contorta</i>	X	
	<i>Aristida holathera</i> var. <i>holathera</i>	X	
	* <i>Cenchrus ciliaris</i>	X	
	* <i>Cenchrus setiger</i>	X	
	* <i>Chloris barbata</i>	X	
	<i>Chrysopogon fallax</i>	X	
	<i>Cymbopogon ambiguus</i>	X	
	* <i>Cynodon dactylon</i>	X	
	<i>Cynodon prostratus</i>	X	
	<i>Dactyloctenium radulans</i>		X
	<i>Dichanthium fecundum</i>		X
	<i>Digitaria brownii</i>	X	
	<i>Enneapogon caerulescens</i>	X	
	<i>Enneapogon lindleyanus</i>	X	
	<i>Eragrostis ?xerophila</i>	X	
	<i>Eragrostis cumingii</i>	X	
	<i>Eragrostis desertorum</i>	X	
	<i>Eragrostis dielsii</i>	X	
	<i>Eragrostis eriopoda</i>	X	
	* <i>Eragrostis minor</i>		X
	<i>Eragrostis speciosa</i>		X
	<i>Eragrostis tenellula</i>	X	
<i>Eriachne aristidea</i>	X		
<i>Eriachne benthamii</i>		X	
<i>Eriachne mucronata</i>	X		
<i>Eriachne obtusa</i>	X		
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	X		
<i>Eriachne tenuiculmis</i>	X		
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)	X		
<i>Eulalia aurea</i>	X		
<i>Paraneurachne muelleri</i>	X		
<i>Paspalidium clementii</i>	X		
<i>Paspalidium rarum</i>	X		
<i>Paspalidium tabulatum</i>	X		
<i>Perotis rara</i>	X		
<i>Schizachyrium fragile</i>	X		
<i>Sorghum plumosum</i> var. <i>plumosum</i>	X		
<i>Sporobolus australasicus</i>	X		

Family	Taxon	2018/2019 Survey	Study Area*
Poaceae cont.	<i>Themeda triandra</i>	x	
	<i>Triodia angusta</i>	x	
	<i>Triodia brizoides</i>	x	
	<i>Triodia chichesterensis</i> (P3)	x	
	<i>Triodia epactia</i>	x	
	<i>Triodia lanigera</i>	x	
	<i>Triodia longiceps</i>	x	
	<i>Triodia schinzii</i>	x	
	<i>Triodia scintillans</i>	x	
	<i>Triodia wiseana</i>	x	
	<i>Tripogonella loliiformis</i>	x	
	<i>Yakirra australiensis</i> var. <i>australiensis</i>	x	
	Polygalaceae	<i>Polygala glaucifolia</i>	x
<i>Polygala</i> aff. <i>saccopetala</i>			x
Portulacaceae	<i>Portulaca oleracea</i>	x	
Proteaceae	<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	x	
	<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	x	
	<i>Hakea lorea</i> subsp. <i>lorea</i>	x	
Pteridaceae	<i>Cheilanthes brownii</i>	x	
	<i>Cheilanthes contigua</i>	x	
	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	x	
Rubiaceae	<i>Oldenlandia crouchiana</i>	x	
	<i>Oldenlandia galioides</i>	x	
	<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	x	
Santalaceae	<i>Santalum lanceolatum</i>	x	
Sapindaceae	<i>Atalaya hemiglauc</i>		x
	<i>Dodonaea coriacea</i>	x	
Solanaceae	<i>Nicotiana benthamiana</i>	x	
	<i>Nicotiana</i> ? <i>rosulata</i>		x
	* <i>Physalis angulata</i>		x
	<i>Solanum diversiflorum</i>	x	
	<i>Solanum horridum</i>	x	
	<i>Solanum lasiophyllum</i>		x
Typhaceae	<i>Typha domingensis</i>		x
Violaceae	<i>Hybanthus aurantiacus</i>	x	
Zygophyllaceae	<i>Tribulopsis angustifolia</i>	x	
	<i>Tribulus hirsutus</i>	x	
	<i>Tribulus platypterus</i>	x	
	<i>Tribulus suberosus</i>	x	

*Includes taxa with locations in the Study Area from surveys: Western Botanical (2017); Woodman Environmental (2011a; 2011b; 2013a; 2013b; 2013c).

Taxa not included from the following surveys:

- Mattiske (2000); Outback Ecology (2008; 2009) – data outdated;

- 360 Environmental (2018a; 2018b) - surveys included areas (and taxa) outside Study Area; and
- 360 Environmental (2018c) – full list of taxa not presented in report or appendices.

**Appendix G: Location Details of Significant Flora and Introduced Flora
Recorded within the Survey Area in 2018/2019**

**GOVERNMENT AGENCY REFERENCE ONLY
NOT FOR PUBLIC DISSEMINATION
CONTAINS LOCATIONS OF SIGNIFICANT FLORA TAXA**

Note: All flora locations are in datum GDA94, Zone 50

Significant Flora

Taxon	Significance	Count	Easting	Northing	Comments
<i>Abutilon aff. hannii</i>	Potentially undescribed	5	670021	7653508	Opportunistic
<i>Abutilon aff. hannii</i>	Potentially undescribed	10	670326	7653360	Opportunistic
<i>Abutilon aff. hannii</i>	Potentially undescribed	1	672839	7653305	Opportunistic
<i>Abutilon aff. hannii</i>	Potentially undescribed	10	670696	7653373	Quadrat - WD25
<i>Abutilon aff. hannii</i>	Potentially undescribed	3	674043	7652926	Quadrat - WD90
<i>Abutilon aff. hannii</i>	Potentially undescribed	2	674734	7653978	Quadrat - WD64
<i>Abutilon aff. hannii</i>	Potentially undescribed	20	671224	7654427	Quadrat - WDM25
<i>Euphorbia clementii</i>	P3	500	670624	7658799	Opportunistic
<i>Euphorbia clementii</i>	P3	1	673796	7653684	Quadrat - TRH058
<i>Euphorbia clementii</i>	P3	1	677015	7661962	Quadrat - WD12
<i>Euphorbia clementii</i>	P3	1	669486	7653745	Quadrat - WD33
<i>Euphorbia clementii</i>	P3	3	673382	7662799	Quadrat - WDD02
<i>Euphorbia clementii</i>	P3	26	672894	7663619	Quadrat - WDD08
<i>Euphorbia clementii</i>	P3	3	675946	7663306	Quadrat - WDD14
<i>Euphorbia clementii</i>	P3	6	672948	7661371	Quadrat - WDD24
<i>Euphorbia clementii</i>	P3	1	671224	7654427	Quadrat - WDM25
<i>Euphorbia clementii</i>	P3	2	675664	7654547	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675920	7654748	Opportunistic
<i>Euphorbia clementii</i>	P3	2	675841	7654749	Opportunistic
<i>Euphorbia clementii</i>	P3	2	675368	7654947	Opportunistic
<i>Euphorbia clementii</i>	P3	2	675338	7655033	Opportunistic
<i>Euphorbia clementii</i>	P3	1	676199	7655349	Opportunistic
<i>Euphorbia clementii</i>	P3	2	676211	7655356	Opportunistic
<i>Euphorbia clementii</i>	P3	1	676283	7655355	Opportunistic
<i>Euphorbia clementii</i>	P3	5	675918	7663219	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675915	7663244	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675709	7662369	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675899	7662542	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675903	7662675	Opportunistic
<i>Euphorbia clementii</i>	P3	2	675900	7662758	Opportunistic
<i>Euphorbia clementii</i>	P3	1	673522	7652414	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675805	7662930	Opportunistic
<i>Euphorbia clementii</i>	P3	1	672808	7660885	Opportunistic
<i>Euphorbia clementii</i>	P3	2	672831	7660885	Opportunistic
<i>Euphorbia clementii</i>	P3	2	672843	7660897	Opportunistic
<i>Euphorbia clementii</i>	P3	3	672832	7660909	Opportunistic
<i>Euphorbia clementii</i>	P3	2	672794	7660946	Opportunistic
<i>Euphorbia clementii</i>	P3	14	672784	7660957	Opportunistic
<i>Euphorbia clementii</i>	P3	2	672761	7660981	Opportunistic
<i>Euphorbia clementii</i>	P3	1	672755	7661002	Opportunistic
<i>Euphorbia clementii</i>	P3	2	672736	7661013	Opportunistic
<i>Euphorbia clementii</i>	P3	1	672684	7661113	Opportunistic
<i>Euphorbia clementii</i>	P3	20	672829	7660781	Opportunistic
<i>Euphorbia clementii</i>	P3	20	672841	7660750	Opportunistic
<i>Euphorbia clementii</i>	P3	1	673120	7662187	Opportunistic
<i>Euphorbia clementii</i>	P3	100	673188	7662396	Opportunistic
<i>Euphorbia clementii</i>	P3	20	673204	7662403	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673228	7662409	Opportunistic
<i>Euphorbia clementii</i>	P3	20	673254	7662425	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Euphorbia clementii</i>	P3	20	673282	7662431	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673311	7662437	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673336	7662441	Opportunistic
<i>Euphorbia clementii</i>	P3	200	673351	7662443	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673352	7662460	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673346	7662476	Opportunistic
<i>Euphorbia clementii</i>	P3	20	673345	7662502	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673347	7662521	Opportunistic
<i>Euphorbia clementii</i>	P3	100	673348	7662546	Opportunistic
<i>Euphorbia clementii</i>	P3	100	673346	7662569	Opportunistic
<i>Euphorbia clementii</i>	P3	200	673348	7662587	Opportunistic
<i>Euphorbia clementii</i>	P3	100	673349	7662610	Opportunistic
<i>Euphorbia clementii</i>	P3	300	673353	7662625	Opportunistic
<i>Euphorbia clementii</i>	P3	500	673354	7662642	Opportunistic
<i>Euphorbia clementii</i>	P3	300	673356	7662658	Opportunistic
<i>Euphorbia clementii</i>	P3	100	673331	7662611	Opportunistic
<i>Euphorbia clementii</i>	P3	500	673323	7662585	Opportunistic
<i>Euphorbia clementii</i>	P3	500	673320	7662562	Opportunistic
<i>Euphorbia clementii</i>	P3	200	673321	7662528	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673321	7662496	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673316	7662471	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673294	7662461	Opportunistic
<i>Euphorbia clementii</i>	P3	1	673351	7659936	Opportunistic
<i>Euphorbia clementii</i>	P3	14	673183	7660114	Opportunistic
<i>Euphorbia clementii</i>	P3	1	673140	7660146	Opportunistic
<i>Euphorbia clementii</i>	P3	1	673052	7660273	Opportunistic
<i>Euphorbia clementii</i>	P3	13	672957	7660492	Opportunistic
<i>Euphorbia clementii</i>	P3	2	672958	7660507	Opportunistic
<i>Euphorbia clementii</i>	P3	2	673064	7660413	Opportunistic
<i>Euphorbia clementii</i>	P3	10	673231	7660162	Opportunistic
<i>Euphorbia clementii</i>	P3	16	673275	7660116	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673389	7659938	Opportunistic
<i>Euphorbia clementii</i>	P3	2	673446	7659875	Opportunistic
<i>Euphorbia clementii</i>	P3	10	673520	7659786	Opportunistic
<i>Euphorbia clementii</i>	P3	9	675400	7658654	Opportunistic
<i>Euphorbia clementii</i>	P3	1	669406	7653060	Opportunistic
<i>Euphorbia clementii</i>	P3	10	669382	7653095	Opportunistic
<i>Euphorbia clementii</i>	P3	1	669318	7653107	Opportunistic
<i>Euphorbia clementii</i>	P3	100	669186	7653134	Opportunistic
<i>Euphorbia clementii</i>	P3	1	677203	7663427	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675378	7654912	Opportunistic
<i>Euphorbia clementii</i>	P3	6	675376	7654943	Opportunistic
<i>Euphorbia clementii</i>	P3	3	676722	7655849	Opportunistic
<i>Euphorbia clementii</i>	P3	1	676655	7655855	Opportunistic
<i>Euphorbia clementii</i>	P3	3	676597	7657189	Opportunistic
<i>Euphorbia clementii</i>	P3	2	675805	7662933	Opportunistic
<i>Euphorbia clementii</i>	P3	25	675619	7662146	Opportunistic
<i>Euphorbia clementii</i>	P3	2	669454	7652996	Opportunistic
<i>Euphorbia clementii</i>	P3	4	669262	7653121	Opportunistic
<i>Euphorbia clementii</i>	P3	1	669233	7654954	Opportunistic
<i>Euphorbia clementii</i>	P3	1	669109	7655083	Opportunistic
<i>Euphorbia clementii</i>	P3	3	669110	7655117	Opportunistic
<i>Euphorbia clementii</i>	P3	1	668488	7655234	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Euphorbia clementii</i>	P3	1	669198	7655252	Opportunistic
<i>Euphorbia clementii</i>	P3	1	669440	7655256	Opportunistic
<i>Euphorbia clementii</i>	P3	1	669415	7655169	Opportunistic
<i>Euphorbia clementii</i>	P3	1	669399	7655106	Opportunistic
<i>Euphorbia clementii</i>	P3	1	669458	7655351	Opportunistic
<i>Euphorbia clementii</i>	P3	8	669351	7655351	Opportunistic
<i>Euphorbia clementii</i>	P3	1	669069	7655348	Opportunistic
<i>Euphorbia clementii</i>	P3	2	668915	7655354	Opportunistic
<i>Euphorbia clementii</i>	P3	3	668936	7655448	Opportunistic
<i>Euphorbia clementii</i>	P3	3	669233	7655450	Opportunistic
<i>Euphorbia clementii</i>	P3	10	669495	7655455	Opportunistic
<i>Euphorbia clementii</i>	P3	1	677246	7663440	Opportunistic
<i>Euphorbia clementii</i>	P3	10000	673397	7662673	Opportunistic
<i>Euphorbia clementii</i>	P3	5	674514	7662253	Opportunistic
<i>Euphorbia clementii</i>	P3	10	674216	7662554	Opportunistic
<i>Euphorbia clementii</i>	P3	500	674010	7662719	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673982	7662805	Opportunistic
<i>Euphorbia clementii</i>	P3	50	673958	7662911	Opportunistic
<i>Euphorbia clementii</i>	P3	500	673943	7662986	Opportunistic
<i>Euphorbia clementii</i>	P3	500	673944	7663084	Opportunistic
<i>Euphorbia clementii</i>	P3	10	674619	7662208	Opportunistic
<i>Euphorbia clementii</i>	P3	10	676023	7663082	Opportunistic
<i>Euphorbia clementii</i>	P3	10	675942	7663229	Opportunistic
<i>Euphorbia clementii</i>	P3	50	671449	7661278	Opportunistic
<i>Euphorbia clementii</i>	P3	100	671503	7661298	Opportunistic
<i>Euphorbia clementii</i>	P3	300	671546	7661278	Opportunistic
<i>Euphorbia clementii</i>	P3	2	672736	7661014	Opportunistic
<i>Euphorbia clementii</i>	P3	1	672646	7660871	Opportunistic
<i>Euphorbia clementii</i>	P3	1	672711	7660887	Opportunistic
<i>Euphorbia clementii</i>	P3	1	672852	7660909	Opportunistic
<i>Euphorbia clementii</i>	P3	7	672811	7660982	Opportunistic
<i>Euphorbia clementii</i>	P3	10	672806	7661004	Opportunistic
<i>Euphorbia clementii</i>	P3	7	672796	7661029	Opportunistic
<i>Euphorbia clementii</i>	P3	5	672785	7661062	Opportunistic
<i>Euphorbia clementii</i>	P3	1	672966	7660519	Opportunistic
<i>Euphorbia clementii</i>	P3	2	672898	7660811	Opportunistic
<i>Euphorbia clementii</i>	P3	1	672888	7660836	Opportunistic
<i>Euphorbia clementii</i>	P3	4	672883	7660859	Opportunistic
<i>Euphorbia clementii</i>	P3	300	673151	7662106	Opportunistic
<i>Euphorbia clementii</i>	P3	500	673153	7662163	Opportunistic
<i>Euphorbia clementii</i>	P3	15	673171	7662334	Opportunistic
<i>Euphorbia clementii</i>	P3	200	673254	7662397	Opportunistic
<i>Euphorbia clementii</i>	P3	200	673295	7662406	Opportunistic
<i>Euphorbia clementii</i>	P3	2000	673340	7662418	Opportunistic
<i>Euphorbia clementii</i>	P3	6000	673367	7662422	Opportunistic
<i>Euphorbia clementii</i>	P3	3000	673372	7662468	Opportunistic
<i>Euphorbia clementii</i>	P3	10000	673397	7662487	Opportunistic
<i>Euphorbia clementii</i>	P3	1500	673375	7662533	Opportunistic
<i>Euphorbia clementii</i>	P3	8000	673407	7662561	Opportunistic
<i>Euphorbia clementii</i>	P3	3000	673376	7662599	Opportunistic
<i>Euphorbia clementii</i>	P3	2000	673377	7662641	Opportunistic
<i>Euphorbia clementii</i>	P3	1000	673280	7662565	Opportunistic
<i>Euphorbia clementii</i>	P3	100	673257	7662526	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Euphorbia clementii</i>	P3	100	673247	7662464	Opportunistic
<i>Euphorbia clementii</i>	P3	10	674571	7658497	Opportunistic
<i>Euphorbia clementii</i>	P3	1	674524	7658511	Opportunistic
<i>Euphorbia clementii</i>	P3	2	674533	7658402	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675385	7658703	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675369	7658403	Opportunistic
<i>Euphorbia clementii</i>	P3	1	676444	7658792	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675159	7657971	Opportunistic
<i>Euphorbia clementii</i>	P3	6	676760	7655893	Opportunistic
<i>Euphorbia clementii</i>	P3	4	675865	7662587	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675850	7662771	Opportunistic
<i>Euphorbia clementii</i>	P3	3	675347	7654975	Opportunistic
<i>Euphorbia clementii</i>	P3	5	675358	7655000	Opportunistic
<i>Euphorbia clementii</i>	P3	3	675330	7655000	Opportunistic
<i>Euphorbia clementii</i>	P3	3	675372	7655001	Opportunistic
<i>Euphorbia clementii</i>	P3	2	675961	7663096	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675955	7663180	Opportunistic
<i>Euphorbia clementii</i>	P3	2	675953	7663207	Opportunistic
<i>Euphorbia clementii</i>	P3	5	675944	7663229	Opportunistic
<i>Euphorbia clementii</i>	P3	4	675953	7663258	Opportunistic
<i>Euphorbia clementii</i>	P3	5	675953	7663623	Opportunistic
<i>Euphorbia clementii</i>	P3	10	675952	7662982	Opportunistic
<i>Euphorbia clementii</i>	P3	1	675452	7663403	Opportunistic
<i>Euphorbia clementii</i>	P3	8	673905	7659439	Opportunistic
<i>Heliotropium muticum</i>	P3	20	677060	7662625	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670072	7653581	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670077	7653422	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670087	7656382	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	670125	7653607	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	670179	7654656	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	670189	7653570	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670208	7656399	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	670283	7654728	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670290	7655309	Opportunistic
<i>Terminalia supranitifolia</i>	P3	9	670547	7655704	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670480	7656275	Opportunistic
<i>Terminalia supranitifolia</i>	P3	9	670530	7656287	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671513	7655806	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672366	7655955	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672440	7655564	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	673922	7653588	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674080	7656543	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674081	7656560	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674103	7656499	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674372	7655542	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	674403	7655575	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674980	7657201	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	675065	7656660	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674250	7656708	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	674218	7656573	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	674809	7656731	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674980	7656463	Opportunistic
<i>Terminalia supranitifolia</i>	P3	10	674847	7655871	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	1	674162	7656441	Quadrat - WD36
<i>Terminalia supranitifolia</i>	P3	1	673553	7653900	Quadrat - TRH057
<i>Terminalia supranitifolia</i>	P3	1	671966	7655873	Quadrat - WD07
<i>Terminalia supranitifolia</i>	P3	1	670127	7656414	Quadrat - WD47
<i>Terminalia supranitifolia</i>	P3	1	672700	7657610	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672698	7658043	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672712	7658117	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672687	7658169	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672694	7658317	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	672681	7658333	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672674	7658344	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672682	7658353	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673409	7657406	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673229	7658530	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672669	7658394	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672529	7658650	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672520	7658616	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672453	7659012	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672390	7659040	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	672593	7659043	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672609	7659025	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	672617	7658893	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672722	7657748	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672533	7658869	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672609	7658837	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672590	7658791	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672697	7658642	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672690	7658611	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672665	7658580	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672645	7658446	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672551	7658966	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672515	7658963	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672846	7658568	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672871	7658567	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672882	7658589	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672899	7658576	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672957	7658579	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	672387	7663948	Quadrat - WDD07
<i>Terminalia supranitifolia</i>	P3		672697	7661630	Quadrat - WDD23
<i>Terminalia supranitifolia</i>	P3	4	670924	7654524	Quadrat - WDM24
<i>Terminalia supranitifolia</i>	P3	3	674991	7656165	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	674973	7656155	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	674960	7656141	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674942	7656131	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	674914	7656123	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674840	7656155	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674834	7656191	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674717	7656092	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674666	7656054	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674576	7656054	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674511	7655975	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674579	7656233	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674527	7656241	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	2	674361	7656175	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674343	7656159	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	674339	7656199	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674296	7656246	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674365	7656231	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674348	7656348	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674370	7656356	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674597	7656270	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674631	7656290	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674691	7656323	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674704	7656335	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674706	7656324	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674862	7656227	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674869	7656198	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674917	7656204	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	672870	7658425	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674100	7654397	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	674064	7654328	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674380	7655528	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674419	7655541	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674428	7655546	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	674427	7655563	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674458	7655577	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674468	7655580	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674470	7655587	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674478	7655587	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674460	7655592	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674486	7655603	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674485	7655610	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674495	7655612	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674505	7655612	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	674498	7655618	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674515	7655633	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	674514	7655643	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674533	7655640	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674537	7655643	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674536	7655648	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674538	7655655	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674537	7655659	Opportunistic
<i>Terminalia supranitifolia</i>	P3	10	674527	7655665	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674554	7655656	Opportunistic
<i>Terminalia supranitifolia</i>	P3	7	674554	7655672	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674566	7655684	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674587	7655703	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	674583	7655703	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674605	7655707	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674616	7655715	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674615	7655717	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674623	7655725	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674625	7655728	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674637	7655735	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674648	7655733	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674652	7655732	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	1	674655	7655740	Opportunistic
<i>Terminalia supranitifolia</i>	P3	10	674647	7655758	Opportunistic
<i>Terminalia supranitifolia</i>	P3	10	674676	7655761	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674696	7655750	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674697	7655753	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	674694	7655780	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674723	7655793	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	674753	7655808	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674827	7655825	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674823	7655817	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	674798	7655844	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	673193	7658657	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	673339	7659439	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672931	7658577	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672900	7658373	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672907	7658316	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673324	7659420	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	673113	7659468	Opportunistic
<i>Terminalia supranitifolia</i>	P3	10	671886	7658321	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671899	7658253	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671893	7658235	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674540	7656729	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674529	7656761	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674541	7656767	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674550	7656772	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674531	7656792	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674442	7656779	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674396	7656748	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674386	7656756	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674290	7656555	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674111	7656393	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673924	7656367	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673884	7656357	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673840	7656397	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673812	7656418	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	673772	7656362	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	673762	7656302	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673760	7656251	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673825	7656212	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674074	7656267	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674100	7656307	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674293	7656265	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674355	7656332	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674372	7656351	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674384	7656373	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674385	7656506	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674403	7656522	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674417	7656540	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674448	7656587	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674564	7656366	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	674518	7656597	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674429	7656656	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674513	7656652	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	2	674537	7656714	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674836	7656666	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674990	7656795	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675228	7657160	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	675339	7657359	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	675413	7657385	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675163	7657362	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675069	7657287	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674627	7656756	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	673496	7659474	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672791	7658407	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672850	7658314	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672767	7657818	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673096	7659442	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673437	7659612	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674560	7655927	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	673530	7654406	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673511	7654348	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673567	7654337	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674577	7655792	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674597	7655826	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674828	7655950	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674742	7655889	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674701	7656015	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675188	7656386	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	675111	7656380	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674709	7656504	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674720	7656566	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674871	7656007	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674912	7656048	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675018	7656126	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	674415	7656926	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674545	7656916	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674638	7656624	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674852	7656841	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	674969	7656867	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674971	7656984	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	674986	7656915	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675152	7657138	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675161	7657091	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675138	7657048	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675148	7656990	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673609	7654884	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673730	7655170	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673740	7655139	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673711	7655118	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673888	7655260	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673940	7655282	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674047	7655516	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674035	7655501	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674045	7655503	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674030	7655481	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674012	7655470	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	1	674018	7655462	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673952	7655409	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673938	7655413	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673965	7655418	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673995	7655417	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674008	7655428	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674014	7655415	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674021	7655437	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674024	7655449	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674053	7655532	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674071	7655530	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673971	7655279	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673964	7655334	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673970	7655297	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673980	7655288	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673988	7655307	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673999	7655307	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674011	7655313	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674027	7655317	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674033	7655325	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674044	7655339	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674048	7655344	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674055	7655341	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674070	7655351	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674084	7655358	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674117	7655388	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674160	7655423	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674168	7655427	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	674164	7655442	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674155	7655418	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675125	7656281	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674923	7656450	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	675525	7656852	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675557	7656914	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672610	7657426	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672682	7657612	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672661	7658249	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672645	7658336	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	672659	7658348	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672793	7658424	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672790	7658411	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672423	7658583	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672409	7658586	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672419	7658577	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672370	7658641	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672392	7658637	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672386	7658637	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672411	7658718	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672407	7658752	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672392	7658753	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672394	7658791	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672381	7658805	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672392	7658826	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	1	672393	7658832	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672413	7658835	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672337	7658961	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672328	7658976	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672328	7658986	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672340	7659070	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672325	7659089	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672711	7658858	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672702	7658852	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672691	7658865	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672695	7658869	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672755	7658851	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672775	7658840	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672787	7658840	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672798	7658840	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672763	7658832	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672770	7658794	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672778	7658800	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672784	7658794	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672762	7658783	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672750	7658747	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672749	7658692	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672757	7658670	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672769	7658668	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672778	7658656	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672781	7658593	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672652	7659148	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672736	7659025	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672870	7658615	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672896	7658636	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672985	7658591	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673001	7658645	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672814	7658601	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672810	7658611	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672930	7658594	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672808	7657460	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671874	7658238	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	676113	7656937	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675882	7657356	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675752	7657211	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675763	7657211	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	676062	7657264	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	670633	7656077	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	670648	7656093	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	670653	7656117	Opportunistic
<i>Terminalia supranitifolia</i>	P3	20	670890	7656168	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	670840	7655843	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	670848	7655037	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	670829	7654981	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672604	7661279	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672546	7661203	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672541	7661177	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672531	7661115	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	1	672504	7661044	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672495	7660988	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672511	7660988	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672709	7662139	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672678	7662090	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672650	7662055	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672650	7662050	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672649	7662035	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672678	7662074	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672692	7662036	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672702	7662041	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672695	7662033	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672689	7662029	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672700	7662024	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672705	7662016	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672701	7661999	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672679	7662018	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672675	7662009	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672698	7661975	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672708	7661976	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672692	7661965	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672667	7661934	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672646	7661930	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672636	7661914	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672623	7661903	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672681	7661922	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672690	7661918	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672696	7661937	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672675	7661903	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672673	7661898	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672600	7661875	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672711	7661830	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672715	7661817	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672686	7661801	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672721	7661778	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672702	7661751	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672703	7661730	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672758	7661722	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672708	7661717	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672707	7661689	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672678	7661684	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672706	7661665	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672705	7661655	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672671	7661652	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672679	7661597	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672675	7661585	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672652	7661578	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672629	7661575	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672642	7661560	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672640	7661535	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672631	7661531	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672641	7662846	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672607	7662837	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	1	672592	7662833	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672597	7662775	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672602	7662768	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672664	7662748	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672610	7662748	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672608	7662741	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672603	7662734	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672602	7662730	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672598	7662724	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672593	7662720	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672638	7662721	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672697	7662726	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672691	7662730	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672726	7662720	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672704	7662708	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672714	7662697	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672704	7662687	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672700	7662670	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672721	7662671	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672714	7662657	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672689	7662641	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672669	7662662	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672662	7662657	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672637	7662668	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672596	7662619	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672699	7662594	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672728	7662609	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672711	7662613	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672671	7662537	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672686	7662557	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672715	7662564	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672723	7662518	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672749	7662521	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672750	7662524	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672773	7662541	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672703	7662498	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672703	7662488	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672732	7662438	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672766	7662411	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672796	7662452	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672778	7662382	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	669742	7652152	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670924	7654522	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670072	7652725	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	670129	7652331	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670387	7652701	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670691	7652273	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670765	7652092	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670773	7651934	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672536	7663008	Opportunistic
<i>Terminalia supranitifolia</i>	P3	7	672505	7662971	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672444	7662945	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672480	7663008	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	1	672530	7663027	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672489	7663072	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672512	7663097	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672484	7663131	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672448	7663096	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672418	7663089	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672397	7663139	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672374	7663029	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672371	7662978	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672359	7662919	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672148	7662686	Opportunistic
<i>Terminalia supranitifolia</i>	P3	12	672319	7663961	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672382	7663971	Opportunistic
<i>Terminalia supranitifolia</i>	P3	28	672481	7663911	Opportunistic
<i>Terminalia supranitifolia</i>	P3	7	672490	7663855	Opportunistic
<i>Terminalia supranitifolia</i>	P3	9	672490	7663748	Opportunistic
<i>Terminalia supranitifolia</i>	P3	9	672473	7663714	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672425	7663726	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672431	7663631	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672441	7663605	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	672439	7663545	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672108	7661653	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672424	7661737	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672460	7661752	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672466	7661769	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672442	7661797	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672359	7661756	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672508	7661896	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672536	7661966	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	672493	7661944	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672473	7661919	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672485	7661201	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672489	7661182	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672477	7661122	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672508	7661102	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672659	7662243	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672574	7662207	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	672615	7662167	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	672563	7662001	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672644	7661928	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672622	7661903	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672598	7661876	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672591	7661898	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672542	7661873	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	672516	7661830	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672551	7661791	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672535	7661796	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	672502	7661782	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	672525	7661779	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672505	7661746	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672594	7661757	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672635	7661712	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672619	7661684	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	1	672599	7661683	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672613	7661663	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672580	7661671	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672484	7661691	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672567	7661538	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672610	7661573	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672635	7661585	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672621	7661592	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672630	7661634	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672558	7661501	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672553	7661487	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672510	7661458	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672547	7661441	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672575	7661426	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672609	7661462	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672615	7661483	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672557	7662846	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672557	7662811	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	672513	7662857	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672358	7662914	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672382	7662817	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672408	7662850	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672445	7662827	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672439	7662816	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672418	7662806	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672403	7662789	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672397	7662783	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672476	7662693	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672456	7662724	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672471	7662750	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672487	7662756	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672490	7662734	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672526	7662725	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	672514	7662706	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	672509	7662702	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672515	7662693	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672557	7662676	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672564	7662672	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672572	7662672	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672563	7662593	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672601	7662473	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672625	7662417	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672624	7662405	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672624	7662398	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672674	7662374	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672657	7662333	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672694	7662313	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672722	7662310	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672738	7662407	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672747	7662362	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672831	7662333	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	676651	7658566	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	676620	7658551	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	3	676463	7658302	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675672	7657614	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672371	7664170	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672377	7664135	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672362	7664115	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672411	7664108	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672425	7664094	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672441	7664109	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	672442	7664137	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	672451	7664131	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672476	7664113	Opportunistic
<i>Terminalia supranitifolia</i>	P3	12	672487	7664090	Opportunistic
<i>Terminalia supranitifolia</i>	P3	8	672499	7664060	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	672523	7664022	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672539	7663982	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672585	7663963	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672600	7663946	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672271	7664070	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672157	7664159	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672107	7664188	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	672081	7664197	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671972	7664379	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671890	7664481	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671879	7664490	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671826	7664557	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671869	7664554	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671830	7664720	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	671831	7664712	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671961	7664815	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672430	7660481	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672274	7660515	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672152	7660432	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672305	7660435	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672312	7660465	Opportunistic
<i>Terminalia supranitifolia</i>	P3	8	672086	7660096	Opportunistic
<i>Terminalia supranitifolia</i>	P3	8	672073	7660049	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	672100	7659991	Opportunistic
<i>Terminalia supranitifolia</i>	P3	8	672124	7659885	Opportunistic
<i>Terminalia supranitifolia</i>	P3	8	672116	7659798	Opportunistic
<i>Terminalia supranitifolia</i>	P3	8	672064	7659760	Opportunistic
<i>Terminalia supranitifolia</i>	P3	7	672042	7659719	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	672084	7659706	Opportunistic
<i>Terminalia supranitifolia</i>	P3	20	672021	7659629	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672333	7664147	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672333	7664134	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672320	7664118	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672305	7664142	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672282	7664164	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672249	7664205	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672243	7664226	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672230	7664235	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	672219	7664243	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672208	7664256	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	2	672175	7664273	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672161	7664280	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672162	7664281	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672140	7664293	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672129	7664311	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672069	7664342	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	672029	7664366	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672011	7664366	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671983	7664445	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671919	7664507	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671922	7664561	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671931	7664581	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	671939	7664686	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671915	7664761	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	671897	7664787	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671866	7664826	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	671879	7664837	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671872	7664852	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671842	7664898	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671832	7664923	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671809	7665023	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671754	7664904	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671766	7664869	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671736	7664859	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671752	7664836	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671776	7664814	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671800	7664803	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671792	7664789	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671904	7664808	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672500	7660498	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672476	7660489	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672467	7660457	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672445	7660465	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672426	7660434	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672441	7660417	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672450	7660409	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672421	7660329	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672387	7660388	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	672117	7660021	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672480	7660299	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	672507	7660263	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	676515	7657760	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	676332	7657423	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	676151	7657322	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	673406	7651457	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672873	7650294	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674164	7655430	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	674169	7655492	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	674149	7655490	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	674168	7655483	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	674154	7655479	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675374	7656329	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675389	7656336	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	1	675335	7656453	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675321	7656451	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675364	7656397	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675375	7656394	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675421	7656407	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675459	7656399	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675470	7656415	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675451	7656418	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675434	7656448	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675480	7656423	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675487	7656434	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675494	7656447	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675500	7656461	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675529	7656517	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675509	7656499	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675512	7656482	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675508	7656471	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675542	7656611	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675546	7656625	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675557	7656696	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675565	7656709	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675598	7656727	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675712	7656804	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675609	7656848	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675628	7656852	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675632	7656863	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675596	7656869	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675622	7656878	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675601	7656861	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675540	7656943	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675602	7656925	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675677	7656936	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675671	7656919	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675523	7657148	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675496	7657136	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675377	7657117	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675287	7657022	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675306	7657035	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675281	7656380	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674949	7656453	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674973	7656532	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675051	7656636	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675045	7656624	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675187	7656669	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675212	7656666	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675210	7656675	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675228	7656685	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675272	7656771	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	674061	7656910	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	673279	7659451	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	672422	7660429	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672773	7659670	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672758	7659743	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	8	672738	7659798	Opportunistic
<i>Terminalia supranitifolia</i>	P3	15	672608	7663920	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	672200	7662487	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675500	7657505	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675805	7657615	Opportunistic
<i>Terminalia supranitifolia</i>	P3	9	670799	7655245	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	670834	7655162	Opportunistic
<i>Terminalia supranitifolia</i>	P3	8	670893	7654901	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	670934	7654874	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670969	7654825	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670874	7654791	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	670787	7654842	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670444	7654822	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	670363	7654633	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670473	7654588	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670924	7654618	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670798	7654314	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	670823	7654302	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670861	7654300	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670681	7654106	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670608	7653980	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670316	7654206	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670383	7654192	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670266	7654105	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670244	7654024	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	677457	7659574	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	677478	7659515	Opportunistic
<i>Terminalia supranitifolia</i>	P3	9	676482	7658003	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	676551	7657981	Opportunistic
<i>Terminalia supranitifolia</i>	P3	16	676373	7657800	Opportunistic
<i>Terminalia supranitifolia</i>	P3	11	676376	7657737	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	676304	7657678	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	676220	7657609	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	676151	7657540	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	675973	7657397	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	676201	7657344	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	676304	7657416	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	676267	7657372	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	676420	7657522	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	676498	7657669	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	677011	7659781	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	677044	7659873	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	677118	7659975	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	677165	7660116	Opportunistic
<i>Terminalia supranitifolia</i>	P3	12	675815	7657002	Opportunistic
<i>Terminalia supranitifolia</i>	P3	14	676023	7657147	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	676250	7657103	Opportunistic
<i>Terminalia supranitifolia</i>	P3	3	676262	7657286	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	676599	7657468	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	676582	7657438	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	676525	7657390	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	676449	7657271	Opportunistic
<i>Terminalia supranitifolia</i>	P3	8	676362	7657261	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Terminalia supranitifolia</i>	P3	3	676388	7657176	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	675785	7657160	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	675900	7657231	Opportunistic
<i>Terminalia supranitifolia</i>	P3	8	675904	7657373	Opportunistic
<i>Terminalia supranitifolia</i>	P3	4	671552	7654967	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	671491	7655358	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671324	7655506	Opportunistic
<i>Terminalia supranitifolia</i>	P3	6	671206	7655659	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	671089	7655562	Opportunistic
<i>Terminalia supranitifolia</i>	P3	7	670871	7655468	Opportunistic
<i>Terminalia supranitifolia</i>	P3	8	670928	7655801	Opportunistic
<i>Terminalia supranitifolia</i>	P3	5	670858	7655905	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670598	7656045	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670603	7656080	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670605	7656106	Opportunistic
<i>Terminalia supranitifolia</i>	P3	9	670674	7656066	Opportunistic
<i>Terminalia supranitifolia</i>	P3	9	670642	7655912	Opportunistic
<i>Terminalia supranitifolia</i>	P3	16	670470	7655390	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670567	7655509	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670593	7655464	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	670551	7655413	Opportunistic
<i>Terminalia supranitifolia</i>	P3	11	670712	7655284	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	670525	7655184	Opportunistic
<i>Terminalia supranitifolia</i>	P3	8	670814	7655059	Opportunistic
<i>Terminalia supranitifolia</i>	P3	2	670985	7655172	Opportunistic
<i>Terminalia supranitifolia</i>	P3	1	670964	7655123	Opportunistic
<i>Terminalia supranitifolia</i>	P3	22	670920	7655027	Opportunistic
<i>Terminalia supranitifolia</i>	P3	9	670457	7654855	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675067	7660840	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675138	7662354	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675250	7662081	Opportunistic
<i>Triodia chichesterensis</i>	P3	8000	675275	7662612	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	675429	7662433	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	675564	7662390	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675010	7660894	Quadrat - WD89
<i>Triodia chichesterensis</i>	P3	200	674553	7661325	Quadrat - WD55
<i>Triodia chichesterensis</i>	P3	100	675858	7663069	Quadrat - W03
<i>Triodia chichesterensis</i>	P3	8000	675360	7662097	Quadrat - WD59
<i>Triodia chichesterensis</i>	P3	1500	673958	7659456	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674050	7659500	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674123	7659568	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674190	7659629	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674271	7660249	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674344	7660254	Opportunistic
<i>Triodia chichesterensis</i>	P3	20	674458	7660250	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674735	7660254	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	674642	7655121	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	674641	7655070	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	674651	7655031	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	674653	7654860	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674659	7654181	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	674649	7654094	Opportunistic
<i>Triodia chichesterensis</i>	P3	35	674201	7654099	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	600	673921	7653788	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	673825	7653732	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673790	7653692	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	673722	7653660	Opportunistic
<i>Triodia chichesterensis</i>	P3	2500	673646	7653663	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	673540	7653670	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	673468	7653682	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	673284	7653779	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673268	7653814	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	673258	7653935	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673335	7653974	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	674902	7654258	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674907	7654317	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	674899	7654414	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674899	7654462	Opportunistic
<i>Triodia chichesterensis</i>	P3	40	674899	7654903	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674898	7655009	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674903	7655089	Opportunistic
<i>Triodia chichesterensis</i>	P3	900	675106	7655096	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675101	7654813	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675250	7654671	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675294	7654870	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675309	7654959	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675300	7654988	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675065	7655205	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674981	7655201	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674883	7655192	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674794	7655209	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	674684	7655349	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674861	7655351	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674984	7655365	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675053	7655350	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675266	7655353	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675268	7655491	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	675117	7655505	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	674916	7655490	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674845	7655509	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674795	7655514	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674730	7655505	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	674651	7655498	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674590	7655513	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674745	7655654	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674831	7655654	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	674972	7655647	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675155	7655636	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673906	7660412	Opportunistic
<i>Triodia chichesterensis</i>	P3	10	674514	7661281	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	674499	7661342	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674650	7661303	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	674663	7661261	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	674656	7661129	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	675226	7655897	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675118	7655906	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1000	675032	7655914	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675090	7656100	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	675148	7660908	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675040	7660916	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	674922	7660906	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674900	7660965	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675127	7661092	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675245	7661108	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675278	7661100	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674565	7659853	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	674507	7659847	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	674425	7659839	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674200	7659701	Opportunistic
<i>Triodia chichesterensis</i>	P3	10	672504	7657151	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672506	7657247	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	672508	7657341	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672508	7657416	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	672499	7657538	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672502	7657662	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672497	7657883	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	672508	7658010	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	672504	7658088	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672497	7658306	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672305	7658352	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672296	7658188	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672307	7658066	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672297	7657723	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	672302	7657605	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	672320	7657398	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	672313	7657262	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	672301	7657132	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	672304	7657092	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	672294	7657015	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	672305	7656959	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672310	7656876	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672301	7656799	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672502	7656832	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	672500	7656920	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	672504	7657039	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	672095	7657304	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	672097	7657666	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672094	7657727	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	672108	7657819	Opportunistic
<i>Triodia chichesterensis</i>	P3	900	672116	7658017	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	672112	7658110	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673198	7658674	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673304	7658646	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672684	7656955	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	672801	7656997	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672808	7657105	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672792	7657330	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672667	7657909	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	671998	7658268	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1000	671998	7658134	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672001	7658082	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672012	7658042	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	671995	7657804	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	671995	7657684	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674490	7660095	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674447	7660105	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674393	7660102	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674309	7660108	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674280	7660287	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674725	7660298	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674752	7660301	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674800	7660300	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674782	7660455	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674689	7655085	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674698	7655034	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674700	7654956	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674700	7654874	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674702	7654157	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674134	7654180	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674135	7654138	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673990	7653990	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	673753	7653833	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673684	7653800	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673612	7653752	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673587	7653752	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673558	7653749	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673540	7653746	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673519	7653745	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673503	7653747	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673457	7653746	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673346	7653789	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673342	7653811	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673334	7653840	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673308	7653917	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673343	7653935	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674851	7654103	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674846	7654261	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674853	7655013	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674837	7655074	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675049	7655095	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675044	7655017	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675053	7654887	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675058	7654519	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675250	7654882	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675251	7654972	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675257	7655046	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	675566	7656486	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	675576	7656489	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675573	7656462	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675502	7656310	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676902	7656433	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	677070	7656435	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	2000	677343	7656440	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673961	7658017	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674073	7658052	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674137	7658086	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674130	7658121	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674162	7658138	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674224	7658210	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674240	7658180	Opportunistic
<i>Triodia chichesterensis</i>	P3	30	674310	7658287	Opportunistic
<i>Triodia chichesterensis</i>	P3	30	674319	7658295	Opportunistic
<i>Triodia chichesterensis</i>	P3	30	674329	7658300	Opportunistic
<i>Triodia chichesterensis</i>	P3	30	674331	7658315	Opportunistic
<i>Triodia chichesterensis</i>	P3	30	674358	7658324	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674400	7658329	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674381	7658378	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	674339	7658359	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	674096	7658155	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	674091	7658151	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	674085	7658146	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	674079	7658143	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	674071	7658132	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	674072	7658131	Opportunistic
<i>Triodia chichesterensis</i>	P3	7	674056	7658131	Opportunistic
<i>Triodia chichesterensis</i>	P3	40	674008	7658109	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	673972	7658098	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	673965	7658118	Opportunistic
<i>Triodia chichesterensis</i>	P3	10	673951	7658128	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673734	7658280	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673683	7658216	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673554	7658196	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673722	7658323	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	673870	7658371	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673766	7659617	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	673984	7659357	Opportunistic
<i>Triodia chichesterensis</i>	P3	900	674074	7659251	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	674175	7659099	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672620	7657486	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	673707	7657044	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	673285	7657087	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	674495	7659130	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	674437	7659040	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674346	7658919	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674396	7658730	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674455	7658580	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674505	7658523	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674438	7658466	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	673877	7658568	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673942	7658657	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	673666	7659642	Opportunistic
<i>Triodia chichesterensis</i>	P3	20	674385	7658449	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674383	7658506	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674359	7658628	Opportunistic
<i>Triodia chichesterensis</i>	P3	20	674302	7658760	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	200	674275	7658945	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674399	7659139	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674421	7659202	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673916	7658558	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674051	7658700	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674024	7658754	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673965	7658767	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673942	7658708	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673943	7658655	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674607	7660050	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674509	7660046	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674429	7660049	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674381	7660055	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674267	7660057	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674255	7660200	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674328	7660202	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674389	7660197	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674501	7660206	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674543	7660191	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674611	7655128	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674598	7654853	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674117	7653925	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673918	7653826	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673812	7653761	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673757	7653738	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673707	7653731	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673620	7653727	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673555	7653718	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673466	7653714	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673324	7653800	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673305	7653852	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674960	7654439	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674954	7655006	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674954	7655068	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675161	7654914	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675150	7654854	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675150	7654797	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675151	7654728	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675099	7655258	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674974	7655258	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674857	7655257	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674730	7655253	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674672	7655258	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674646	7655401	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674761	7655400	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674952	7655411	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675007	7655392	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675248	7655546	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674991	7655566	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674886	7655552	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674795	7655560	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674721	7655553	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674665	7655553	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1000	674784	7655700	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674924	7655699	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675002	7655696	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675081	7655700	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675298	7655951	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675226	7655946	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675129	7655952	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675032	7655942	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674975	7655959	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675168	7656153	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675225	7656150	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675096	7660950	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675033	7660958	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674966	7660961	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675240	7661152	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672898	7657275	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674595	7659904	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674482	7659907	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674433	7659905	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672452	7657120	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672445	7657199	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672448	7657313	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672442	7657464	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672449	7657553	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672448	7657660	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672448	7657771	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672452	7657850	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672445	7657955	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672448	7658051	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672453	7658163	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672442	7658299	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672256	7658311	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	672250	7658194	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672273	7657965	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672267	7657865	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672252	7657763	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672262	7657666	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672256	7657468	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672257	7657344	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672246	7657217	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672259	7657148	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672252	7657077	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672257	7656988	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	672261	7656937	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672446	7656755	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672448	7656880	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672455	7656985	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672441	7657074	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672043	7657538	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672054	7657664	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672053	7657806	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672051	7658040	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672048	7658172	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1000	672654	7657026	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672652	7657076	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672653	7657128	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672650	7657263	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673367	7658586	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672746	7657061	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672751	7657159	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672747	7657261	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672749	7657356	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672749	7657449	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	672950	7657266	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674606	7659953	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674537	7659966	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674307	7659936	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674484	7659737	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674520	7659734	Opportunistic
<i>Triodia chichesterensis</i>	P3		675901	7663065	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672600	7657083	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672592	7657238	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672601	7657387	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672597	7657689	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672596	7658116	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672397	7658341	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672394	7658284	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672402	7658197	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672396	7658084	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	672402	7657846	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672405	7657654	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672399	7657466	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672399	7657334	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672410	7657262	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672411	7657133	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672394	7656852	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672405	7656720	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672606	7656839	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672602	7656902	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672601	7657055	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672201	7657209	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672201	7657525	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672209	7657610	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672201	7657718	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672201	7657778	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672201	7657893	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672209	7657977	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672204	7658123	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674905	7655753	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674973	7655749	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675012	7655728	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675128	7655737	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674603	7661287	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	674601	7661243	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674609	7661188	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674604	7661160	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	200	675137	7655806	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675086	7655794	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674977	7655805	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674987	7656000	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675060	7655998	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675127	7656002	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675268	7655988	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675081	7660848	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675047	7660867	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675062	7661053	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675133	7661045	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675318	7656249	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	674133	7654236	Opportunistic
<i>Triodia chichesterensis</i>	P3	10	673662	7653811	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	673376	7653765	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673341	7653740	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673292	7653731	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673259	7653880	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673265	7653987	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674800	7654149	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674804	7654295	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674790	7654346	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674803	7654476	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674823	7654894	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675004	7655097	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674994	7654889	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675002	7654463	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675022	7654406	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675069	7654432	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675200	7654795	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675206	7654888	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675199	7654964	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675168	7655155	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675085	7655164	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674898	7655155	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674802	7655158	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674749	7655160	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674651	7655170	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	674678	7655297	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674760	7655296	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	674945	7655299	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675042	7655313	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675271	7655306	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675321	7655408	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674756	7655453	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674680	7655461	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674614	7655455	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674692	7655595	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674766	7655603	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674851	7655599	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674962	7655598	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675055	7655601	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675110	7655602	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	2000	673949	7660472	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	673956	7660357	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674547	7661173	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674741	7661283	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674759	7661225	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674740	7661166	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674702	7661150	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674697	7661181	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674692	7661244	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675253	7655849	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675171	7655855	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675123	7655844	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675059	7655845	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674998	7655846	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674962	7655854	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675029	7656050	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675067	7656049	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675160	7656056	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675208	7656054	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674737	7660835	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674973	7660999	Opportunistic
<i>Triodia chichesterensis</i>	P3	750	675012	7660997	Opportunistic
<i>Triodia chichesterensis</i>	P3	750	675060	7661004	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	675151	7660997	Opportunistic
<i>Triodia chichesterensis</i>	P3	80	675139	7656204	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	672996	7657432	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674595	7659998	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674527	7659996	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674490	7660002	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674415	7659999	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674412	7659805	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	674492	7659796	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674538	7659798	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672552	7657088	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	672547	7657180	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672550	7657351	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672549	7657403	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672554	7657469	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672566	7657711	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672554	7657830	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	672550	7657882	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672557	7657936	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672547	7658176	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672558	7658232	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672495	7658360	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672352	7658353	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672347	7658325	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672354	7658263	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672339	7658178	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672349	7658115	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672349	7658049	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672347	7657957	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672354	7657905	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	500	672351	7657810	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672358	7657775	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672354	7657584	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672351	7657414	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672345	7657365	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672350	7657278	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672363	7657210	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672360	7657129	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672350	7656946	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672349	7656873	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672353	7656806	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672360	7656706	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672554	7656799	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672555	7656848	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672546	7656922	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672156	7657068	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672139	7657226	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672151	7657287	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	672149	7657356	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672155	7657513	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672155	7657573	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672147	7657635	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672153	7657683	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672148	7657791	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672151	7657861	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672148	7658015	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	672147	7658171	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	671931	7658292	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	671955	7658222	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	671951	7658163	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	671956	7658124	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	671948	7657832	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	674798	7660141	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674543	7660152	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674457	7660144	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674409	7660154	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674306	7660152	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674238	7660157	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674744	7660346	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	674817	7660358	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674856	7660355	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674851	7660407	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674796	7660396	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674757	7655028	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674757	7654369	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674756	7654239	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674743	7654120	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674670	7654048	Opportunistic
<i>Triodia chichesterensis</i>	P3	30	673957	7658113	Opportunistic
<i>Triodia chichesterensis</i>	P3	80	673958	7658060	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	673922	7658020	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	673962	7657756	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673696	7657580	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1000	673660	7657576	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673544	7657612	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	671135	7654351	Quadrat - WDM26
<i>Triodia chichesterensis</i>	P3	1500	670611	7654192	Quadrat - WDM27
<i>Triodia chichesterensis</i>	P3	30	676388	7654468	Quadrat - WDM07
<i>Triodia chichesterensis</i>	P3	1000	672707	7656963	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672699	7657047	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672694	7657161	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	672693	7657283	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676561	7659045	Quadrat - WDM13
<i>Triodia chichesterensis</i>	P3	2000	676643	7659130	Quadrat - WDM14
<i>Triodia chichesterensis</i>	P3	1	676298	7659393	Quadrat - WDM16
<i>Triodia chichesterensis</i>	P3	2000	675881	7658224	Quadrat - WDM20
<i>Triodia chichesterensis</i>	P3	1200	675501	7658467	Quadrat - WDM21
<i>Triodia chichesterensis</i>	P3	8	675240	7658543	Quadrat - WDM22
<i>Triodia chichesterensis</i>	P3	1	676311	7655678	Quadrat - WDK16
<i>Triodia chichesterensis</i>	P3	1000	676668	7660278	Quadrat - WDK17
<i>Triodia chichesterensis</i>	P3		676217	7659883	Quadrat - WDK19
<i>Triodia chichesterensis</i>	P3		671136	7655167	Quadrat - WDK23
<i>Triodia chichesterensis</i>	P3	250	675798	7654042	Quadrat - WDM01
<i>Triodia chichesterensis</i>	P3	150	676464	7654091	Quadrat - WDM03
<i>Triodia chichesterensis</i>	P3	120	675975	7654957	Quadrat - WDM04
<i>Triodia chichesterensis</i>	P3	10	675763	7656809	Quadrat - WDK01
<i>Triodia chichesterensis</i>	P3	60	675733	7656635	Quadrat - WDK02
<i>Triodia chichesterensis</i>	P3	2	675677	7656265	Quadrat - WDK03
<i>Triodia chichesterensis</i>	P3		675683	7655796	Quadrat - WDK06
<i>Triodia chichesterensis</i>	P3	1000	676471	7657056	Quadrat - WDK13
<i>Triodia chichesterensis</i>	P3	5000	675745	7663848	Quadrat - WDD15
<i>Triodia chichesterensis</i>	P3	5000	675705	7663389	Quadrat - WDD22
<i>Triodia chichesterensis</i>	P3	800	672502	7659001	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672703	7657865	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	672707	7657955	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	673809	7658298	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673818	7658216	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673657	7658265	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	677986	7659981	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	677884	7659929	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	677725	7659921	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	677410	7659993	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675573	7654545	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675939	7654561	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676014	7654560	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676071	7654560	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676140	7654555	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676241	7654551	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676341	7654548	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676391	7654555	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676496	7654553	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676581	7654555	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676681	7654560	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676746	7654563	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676817	7654560	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676758	7654748	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	50	676659	7654755	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676474	7654757	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676210	7654758	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675782	7654754	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675659	7654745	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675675	7654948	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675947	7654957	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676163	7654948	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676324	7654959	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676761	7655154	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676221	7655154	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675425	7655144	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675378	7655350	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675411	7655349	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675440	7655354	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675461	7655356	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675502	7655348	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675553	7655353	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675578	7655350	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675620	7655356	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675780	7655344	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675826	7655354	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676093	7655350	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676642	7655345	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676718	7655554	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676471	7655547	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676312	7655553	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675600	7655554	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675503	7655555	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675668	7655758	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675799	7655747	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676468	7655748	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676692	7655957	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676801	7656154	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675649	7656151	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675604	7656155	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675536	7656345	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675601	7656359	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675703	7656353	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675766	7656350	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675897	7656355	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675939	7656352	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676549	7656342	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676626	7656350	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676811	7656354	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676512	7657072	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676298	7656995	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676299	7656926	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676298	7656790	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676106	7656505	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676094	7656886	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676081	7656932	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675904	7656793	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1000	675906	7656689	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675893	7656451	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675704	7656472	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675699	7656555	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675688	7656684	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675897	7663007	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675899	7663079	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675910	7663147	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675700	7663956	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675700	7663888	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675698	7663791	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675697	7663740	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675696	7663657	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675702	7663600	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675710	7663522	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675712	7663439	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675707	7663387	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675698	7663346	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675712	7663222	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675701	7663168	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675689	7663122	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675705	7662903	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675701	7662818	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675707	7662717	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675702	7662578	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673181	7652523	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	673761	7652436	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674368	7652780	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674698	7652275	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674594	7652137	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674813	7652181	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674996	7652161	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675455	7652367	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675625	7652550	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676133	7652764	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676242	7652722	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	676463	7652786	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676565	7651084	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675652	7650598	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675571	7650602	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675467	7650595	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675365	7650607	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675249	7650601	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675150	7650599	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675081	7650589	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674719	7650607	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674034	7650601	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673932	7650595	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673820	7650499	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674511	7650494	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674551	7650501	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674622	7650471	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674703	7650506	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	500	674742	7650495	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674896	7650498	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674917	7650486	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675058	7650499	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675138	7650494	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675212	7650505	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675643	7650492	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675745	7650499	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675799	7650489	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675830	7650492	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675500	7662798	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675510	7662852	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675504	7662891	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675501	7662976	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675493	7663119	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675496	7663194	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675498	7663331	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675498	7663410	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675504	7663775	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675501	7663873	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675410	7664127	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675404	7663820	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675396	7663739	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675400	7663554	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675401	7663459	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675402	7663403	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675406	7663313	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675399	7663239	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675403	7663166	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675386	7663080	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675398	7663011	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675396	7662878	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675393	7662770	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675405	7662687	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675402	7662489	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675397	7662413	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675400	7662342	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675402	7662238	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675409	7662189	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675503	7662304	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675507	7662365	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675499	7662452	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675504	7662603	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673950	7659333	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673868	7659273	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673835	7659229	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673795	7659218	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673789	7659196	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673741	7659184	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673699	7659151	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673683	7659126	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673639	7659094	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	673576	7659064	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	2000	673466	7658981	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673424	7658947	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673187	7658808	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673105	7658897	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673181	7658958	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673246	7659002	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	673557	7659216	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673371	7659906	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	673339	7659946	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	674744	7658745	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	674618	7658750	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674519	7658649	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674552	7658649	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674590	7658649	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674628	7658650	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674679	7658651	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674745	7658651	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674786	7658652	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674822	7658649	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674846	7658649	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674881	7658652	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675028	7658549	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674994	7658550	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674971	7658552	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674949	7658549	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674912	7658550	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674875	7658547	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674840	7658551	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674799	7658553	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674762	7658547	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674727	7658549	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674687	7658546	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674638	7658551	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674603	7658551	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674567	7658551	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674526	7658550	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674491	7658549	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674458	7658526	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	674515	7658451	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674541	7658449	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674577	7658453	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674620	7658450	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	674660	7658451	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674700	7658451	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674746	7658453	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674803	7658453	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674986	7658449	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675011	7658447	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675008	7658348	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674853	7658352	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674802	7658349	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674766	7658349	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674742	7658351	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	3000	674690	7658352	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	674634	7658348	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674576	7658324	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674690	7658253	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674751	7658250	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674792	7658252	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674857	7658249	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674961	7658251	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675028	7658250	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674981	7658150	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674937	7658152	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674897	7658153	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	674853	7658150	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674822	7658152	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674786	7658148	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674764	7658140	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674702	7658141	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674663	7658142	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674798	7658049	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674829	7658049	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674876	7658050	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674733	7658838	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674791	7659007	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675307	7658749	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675260	7658752	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675186	7658750	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675151	7658751	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675157	7658646	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675258	7658652	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675299	7658650	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675344	7658650	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675373	7658648	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675400	7658654	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675512	7658552	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675457	7658549	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675407	7658545	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675354	7658551	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675286	7658551	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675336	7658450	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675370	7658453	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675414	7658450	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675473	7658450	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675538	7658449	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675586	7658450	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675657	7658451	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675700	7658447	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675803	7658452	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675849	7658458	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675909	7658447	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675967	7658455	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676024	7658452	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676076	7658450	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676117	7658451	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	100	676380	7658452	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676317	7658553	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676275	7658552	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676227	7658546	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676183	7658542	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676089	7658536	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675953	7658542	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675914	7658548	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675860	7658543	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675938	7658662	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675995	7658654	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676040	7658650	Opportunistic
<i>Triodia chichesterensis</i>	P3	2500	676078	7658654	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676124	7658651	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676188	7658646	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676359	7658654	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676647	7658753	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676499	7658751	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676462	7658753	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676324	7658756	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676265	7658753	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676202	7658749	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676146	7658749	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676376	7658857	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676541	7658845	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676592	7658852	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676652	7658854	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676684	7658849	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676725	7658854	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676794	7658964	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676433	7658953	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676441	7659054	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676474	7659051	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676569	7659055	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676600	7659054	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676635	7659056	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	676670	7659147	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	676625	7659147	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676566	7659154	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676709	7659247	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676754	7659243	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676055	7658350	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675973	7658351	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675804	7658350	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675735	7658352	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675693	7658345	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675641	7658355	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675565	7658355	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675515	7658353	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675473	7658342	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675406	7658358	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675316	7658349	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675249	7658345	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	300	675241	7658250	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675353	7658247	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675425	7658244	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675477	7658244	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675616	7658250	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675664	7658251	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675720	7658251	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675780	7658249	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675843	7658251	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675926	7658249	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676000	7658254	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676094	7658149	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675943	7658150	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675870	7658157	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675810	7658160	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675749	7658149	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675700	7658161	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675636	7658157	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675605	7658154	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675518	7658151	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675461	7658147	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675386	7658155	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675295	7658150	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675251	7658150	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675197	7658051	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675287	7658050	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675431	7658048	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675482	7658049	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675669	7658037	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675727	7658052	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675829	7658053	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675867	7658038	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675896	7658058	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675998	7658046	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676046	7658052	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676142	7658044	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676087	7657962	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675985	7657949	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675943	7657953	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675882	7657945	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675738	7657954	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675695	7657953	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675655	7657965	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675608	7657950	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675564	7657953	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675485	7657957	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675353	7657949	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675302	7657956	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675277	7657847	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675572	7657849	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675598	7657852	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675639	7657855	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675675	7657852	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	500	675736	7657850	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675777	7657853	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675839	7657846	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675737	7657758	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675708	7657784	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675583	7657773	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675562	7657762	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675386	7657749	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675097	7657737	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675097	7657765	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675092	7657800	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675097	7657859	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	669944	7653048	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	669977	7653131	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	669990	7653177	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	669834	7653169	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	669000	7655004	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668946	7654997	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668878	7654997	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668808	7654995	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668728	7655000	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	668651	7654999	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668577	7654996	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668515	7655003	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668527	7655101	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668595	7655100	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668662	7655103	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	668740	7655100	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668792	7655102	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668849	7655101	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668904	7655100	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668951	7655100	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	669006	7655100	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	668899	7655202	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668852	7655203	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668789	7655199	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668724	7655203	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668642	7655207	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	668580	7655197	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668541	7655197	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668537	7655298	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668612	7655303	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668657	7655296	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668724	7655298	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	668824	7655302	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	668733	7655403	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668682	7655399	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	668644	7655403	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668583	7655397	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668546	7655401	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668493	7655395	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668451	7655399	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668463	7655500	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1000	668566	7655503	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668603	7655497	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668644	7655501	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	677401	7663884	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	677399	7663923	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	677396	7663982	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	677399	7664025	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	677300	7663839	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	677303	7663770	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	677203	7663785	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	677201	7663819	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	677201	7663938	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	677167	7664119	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	677105	7664188	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	677102	7664157	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	677098	7664120	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	677209	7663679	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	677207	7663636	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	677291	7663500	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	677311	7663573	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	677298	7663630	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	677300	7663699	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	677301	7663742	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	677410	7663773	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	678208	7660038	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	678198	7660083	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678205	7660130	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	678310	7660192	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678310	7660112	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	678308	7660063	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	678308	7660010	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678301	7659969	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	678305	7659906	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	678399	7660079	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	678396	7660126	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	678399	7660169	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	678400	7660293	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678474	7660410	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678502	7660474	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	678515	7660445	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678510	7660404	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678500	7660356	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	678500	7660308	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	678506	7660251	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	678501	7660189	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678503	7660123	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	678491	7660070	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	678604	7660080	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678602	7660116	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678597	7660171	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	678604	7660222	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	678599	7660277	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	678604	7660335	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1000	678599	7660373	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	678677	7660533	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	678704	7660516	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	678705	7660469	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678698	7660427	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	678701	7660363	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	678697	7660298	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	678710	7660222	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	678701	7660160	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	678698	7660113	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676593	7653847	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676457	7653853	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	676318	7653850	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675949	7653852	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	675820	7653858	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675698	7653854	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675568	7653854	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	675438	7653853	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675328	7653850	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	675666	7653953	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	675936	7653953	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	676077	7653950	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676206	7653954	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676519	7653953	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676488	7654054	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676348	7654051	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676187	7654048	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	676048	7654055	Opportunistic
<i>Triodia chichesterensis</i>	P3	60	675896	7654054	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675719	7654053	Opportunistic
<i>Triodia chichesterensis</i>	P3	60	675486	7654055	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675335	7654050	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675363	7654159	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	675566	7654150	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	675961	7654159	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	676102	7654148	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676245	7654154	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676499	7654151	Opportunistic
<i>Triodia chichesterensis</i>	P3	2500	676602	7654250	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676454	7654263	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676317	7654248	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676038	7654251	Opportunistic
<i>Triodia chichesterensis</i>	P3	1200	675500	7654250	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	675334	7654348	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	675624	7654352	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	675743	7654352	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675887	7654350	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	676226	7654349	Opportunistic
<i>Triodia chichesterensis</i>	P3	900	676356	7654347	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676479	7654349	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676598	7654353	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	670596	7654543	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	670673	7654613	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1500	671173	7654489	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	671192	7654374	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	670669	7654294	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675466	7654440	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675650	7654449	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675825	7654449	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	675946	7654449	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	676537	7654447	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676629	7654449	Opportunistic
<i>Triodia chichesterensis</i>	P3	80	676738	7654445	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676836	7654447	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	676550	7654640	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	676449	7654650	Opportunistic
<i>Triodia chichesterensis</i>	P3	5	676249	7654653	Opportunistic
<i>Triodia chichesterensis</i>	P3	1200	676062	7654653	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	675844	7654661	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675631	7654648	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	675336	7654850	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	675546	7654853	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	675947	7654851	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676665	7654849	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676825	7654848	Opportunistic
<i>Triodia chichesterensis</i>	P3	3	676373	7655050	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	676225	7655057	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676004	7655049	Opportunistic
<i>Triodia chichesterensis</i>	P3	125	675569	7655049	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	675458	7655246	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	676003	7655248	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	676142	7655248	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	676467	7655248	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676608	7655247	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676663	7655251	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676765	7655261	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676875	7655254	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676812	7655451	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676725	7655460	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676594	7655452	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676372	7655451	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676166	7655454	Opportunistic
<i>Triodia chichesterensis</i>	P3	900	676036	7655452	Opportunistic
<i>Triodia chichesterensis</i>	P3	80	675839	7655454	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	675575	7655451	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675943	7655655	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676060	7655658	Opportunistic
<i>Triodia chichesterensis</i>	P3	30	676462	7655654	Opportunistic
<i>Triodia chichesterensis</i>	P3	40	676775	7655652	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676921	7655771	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	676507	7655850	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	676328	7655849	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	675671	7655852	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676803	7656052	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	675337	7656252	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675491	7656252	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	2	675666	7656251	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	675754	7656246	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675951	7656250	Opportunistic
<i>Triodia chichesterensis</i>	P3	180	676492	7656254	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	676600	7656450	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676601	7657020	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676603	7657221	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676412	7657085	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676403	7656953	Opportunistic
<i>Triodia chichesterensis</i>	P3	550	676198	7656760	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676200	7656969	Opportunistic
<i>Triodia chichesterensis</i>	P3	750	676194	7657062	Opportunistic
<i>Triodia chichesterensis</i>	P3	750	675996	7656919	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	676001	7656524	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675799	7656448	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675802	7656566	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675798	7656726	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675600	7656474	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675792	7663126	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	675807	7663235	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675799	7663459	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675798	7663627	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675786	7663803	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675799	7663915	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675598	7664015	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	675601	7663860	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675606	7663754	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675602	7663649	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	675599	7663528	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	675597	7663402	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675599	7663278	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675603	7663139	Opportunistic
<i>Triodia chichesterensis</i>	P3	2500	675605	7663005	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	675602	7662850	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675603	7662786	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675598	7662658	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675594	7662532	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675604	7662317	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	670020	7652803	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	670116	7652747	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	670211	7652653	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	670295	7652518	Opportunistic
<i>Triodia chichesterensis</i>	P3	1250	670369	7652405	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	670538	7652301	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	670755	7652208	Opportunistic
<i>Triodia chichesterensis</i>	P3	1200	669029	7654946	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668907	7654950	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	668749	7654950	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668646	7654951	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668503	7655051	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	668619	7655053	Opportunistic
<i>Triodia chichesterensis</i>	P3	1700	668744	7655049	Opportunistic
<i>Triodia chichesterensis</i>	P3	1800	668866	7655048	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1500	668989	7655050	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	669012	7655151	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	668914	7655154	Opportunistic
<i>Triodia chichesterensis</i>	P3	1200	668788	7655153	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668667	7655155	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	668568	7655253	Opportunistic
<i>Triodia chichesterensis</i>	P3	1200	668747	7655250	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	668851	7655251	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	668808	7655352	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668646	7655353	Opportunistic
<i>Triodia chichesterensis</i>	P3	1200	668532	7655353	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	668425	7655453	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	668532	7655449	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	668644	7655450	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	677453	7663923	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	677449	7664072	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	677349	7664033	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	677351	7663921	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	677352	7663800	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	677248	7663734	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	677251	7663832	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	677251	7663998	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	677148	7664201	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	677243	7663614	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	677349	7663658	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	678104	7659974	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	678154	7660127	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	678252	7660171	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	678248	7660041	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	678353	7659995	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	678353	7660128	Opportunistic
<i>Triodia chichesterensis</i>	P3	20	678356	7660241	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	678452	7660391	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	678451	7660249	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	678447	7660166	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	678557	7660086	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	678550	7660200	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	678550	7660353	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	678550	7660469	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	678650	7660535	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	678649	7660442	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	678647	7660342	Opportunistic
<i>Triodia chichesterensis</i>	P3	900	678651	7660240	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	671910	7663165	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675101	7663729	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675058	7663543	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675050	7663439	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	673557	7659757	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673716	7659514	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	673732	7659478	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	673817	7659387	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	673983	7659193	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674013	7659173	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1000	674043	7659139	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	674018	7659103	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674058	7659109	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674082	7659089	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674124	7659043	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674164	7659000	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674192	7658976	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674244	7658912	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	674255	7658992	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	674231	7659026	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674195	7659062	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674137	7659099	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674097	7659145	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674083	7659170	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674059	7659209	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674029	7659251	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	673984	7659300	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673952	7659340	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673783	7659525	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	673743	7659576	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674827	7658692	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674620	7658690	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674571	7658693	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674523	7658604	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674572	7658602	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674644	7658598	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674687	7658602	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674770	7658605	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674829	7658599	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674911	7658610	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674953	7658615	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674999	7658590	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675031	7658506	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	674982	7658498	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674905	7658493	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674848	7658494	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674783	7658502	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674729	7658506	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674660	7658502	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674600	7658502	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674571	7658497	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674524	7658511	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674557	7658402	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674615	7658410	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674656	7658404	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	674695	7658401	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674756	7658406	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674810	7658404	Opportunistic
<i>Triodia chichesterensis</i>	P3	20	674887	7658410	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674915	7658410	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674964	7658396	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675033	7658397	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675061	7658398	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	400	675065	7658304	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675003	7658302	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	674871	7658301	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674839	7658308	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674791	7658299	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	674750	7658297	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674711	7658304	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674680	7658304	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674638	7658296	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674596	7658298	Opportunistic
<i>Triodia chichesterensis</i>	P3	25	674618	7658198	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674730	7658200	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	674790	7658199	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674847	7658198	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	674896	7658195	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	674942	7658200	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675007	7658199	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675057	7658194	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674985	7658108	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674955	7658103	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674891	7658098	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674827	7658099	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674772	7658098	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674724	7658092	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674826	7658004	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674878	7658004	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674925	7658000	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675265	7658785	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675385	7658703	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675337	7658697	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675282	7658698	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	675111	7658704	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675063	7658709	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	675182	7658614	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675251	7658603	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675282	7658594	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675346	7658606	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	675415	7658605	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675554	7658501	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675493	7658497	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675443	7658497	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675376	7658498	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675315	7658505	Opportunistic
<i>Triodia chichesterensis</i>	P3	40	675283	7658501	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675316	7658398	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675357	7658404	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675404	7658395	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675471	7658405	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675530	7658396	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675581	7658401	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675642	7658401	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675704	7658404	Opportunistic
<i>Triodia chichesterensis</i>	P3	80	675763	7658403	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	500	675817	7658404	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675974	7658401	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676104	7658401	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676390	7658413	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	676419	7658406	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676216	7658509	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	676184	7658498	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676130	7658497	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676091	7658498	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	676044	7658502	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675877	7658500	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675835	7658497	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	675943	7658599	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676016	7658601	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676064	7658601	Opportunistic
<i>Triodia chichesterensis</i>	P3	850	676132	7658597	Opportunistic
<i>Triodia chichesterensis</i>	P3	750	676265	7658602	Opportunistic
<i>Triodia chichesterensis</i>	P3	80	676636	7658719	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676396	7658698	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676291	7658703	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676240	7658696	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	676179	7658699	Opportunistic
<i>Triodia chichesterensis</i>	P3	750	676143	7658696	Opportunistic
<i>Triodia chichesterensis</i>	P3	80	676076	7658705	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	676028	7658697	Opportunistic
<i>Triodia chichesterensis</i>	P3	80	675970	7658703	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676151	7658801	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676278	7658800	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	676324	7658812	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	676354	7658813	Opportunistic
<i>Triodia chichesterensis</i>	P3	900	676645	7658807	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	676679	7658815	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676713	7658895	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	676644	7658900	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676375	7658896	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676424	7658998	Opportunistic
<i>Triodia chichesterensis</i>	P3	30	676483	7658999	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676531	7659004	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676680	7659103	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676641	7659101	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676603	7659094	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676578	7659088	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676536	7659120	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676651	7659194	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	676730	7659177	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	676748	7659159	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	675987	7658305	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675947	7658298	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675895	7658295	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675860	7658298	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	675726	7658300	Opportunistic
<i>Triodia chichesterensis</i>	P3	900	675678	7658302	Opportunistic
<i>Triodia chichesterensis</i>	P3	750	675611	7658299	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	850	675494	7658294	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675452	7658306	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675406	7658296	Opportunistic
<i>Triodia chichesterensis</i>	P3	650	675358	7658299	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	675319	7658308	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675275	7658302	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675241	7658298	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675215	7658211	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675244	7658194	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	675300	7658203	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	675373	7658199	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675422	7658199	Opportunistic
<i>Triodia chichesterensis</i>	P3	650	675476	7658204	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	675511	7658194	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675586	7658200	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675622	7658202	Opportunistic
<i>Triodia chichesterensis</i>	P3	650	675671	7658202	Opportunistic
<i>Triodia chichesterensis</i>	P3	900	675719	7658206	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675761	7658207	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675820	7658198	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675872	7658204	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675909	7658205	Opportunistic
<i>Triodia chichesterensis</i>	P3	20	675995	7658199	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	676028	7658194	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676099	7658113	Opportunistic
<i>Triodia chichesterensis</i>	P3	450	676025	7658105	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675896	7658096	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	675851	7658101	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675774	7658104	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675731	7658103	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675593	7658109	Opportunistic
<i>Triodia chichesterensis</i>	P3	60	675542	7658106	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	675492	7658109	Opportunistic
<i>Triodia chichesterensis</i>	P3	350	675447	7658104	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	675418	7658098	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675377	7658111	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675311	7658112	Opportunistic
<i>Triodia chichesterensis</i>	P3	750	675258	7658114	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675202	7658091	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675223	7658008	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675268	7658003	Opportunistic
<i>Triodia chichesterensis</i>	P3	850	675310	7657998	Opportunistic
<i>Triodia chichesterensis</i>	P3	450	675463	7657996	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675594	7658001	Opportunistic
<i>Triodia chichesterensis</i>	P3	750	675676	7657998	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675732	7658006	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	675768	7658003	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675826	7658001	Opportunistic
<i>Triodia chichesterensis</i>	P3	450	675872	7657999	Opportunistic
<i>Triodia chichesterensis</i>	P3	850	675970	7657999	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	676070	7658002	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675967	7657906	Opportunistic
<i>Triodia chichesterensis</i>	P3	700	675892	7657910	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	150	675823	7657911	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675775	7657909	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675705	7657912	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675634	7657903	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675590	7657896	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675520	7657902	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	675458	7657906	Opportunistic
<i>Triodia chichesterensis</i>	P3	150	675417	7657901	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675368	7657904	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675296	7657915	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675230	7657910	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	675276	7657808	Opportunistic
<i>Triodia chichesterensis</i>	P3	950	675582	7657812	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	675718	7657799	Opportunistic
<i>Triodia chichesterensis</i>	P3	850	675770	7657805	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675836	7657809	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675883	7657822	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675145	7657761	Opportunistic
<i>Triodia chichesterensis</i>	P3	20	675143	7657872	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675159	7658000	Opportunistic
<i>Triodia chichesterensis</i>	P3	650	675156	7658066	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676554	7653907	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676476	7653904	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676339	7653900	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676163	7653918	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676064	7653911	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676006	7653910	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675943	7653907	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675880	7653907	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675826	7653906	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675759	7653901	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675629	7653906	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675538	7653911	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675372	7653906	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675383	7653999	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675676	7654000	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675781	7654009	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675859	7654002	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675963	7653998	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676061	7653991	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676142	7654009	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676234	7654001	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676336	7654004	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676455	7654005	Opportunistic
<i>Triodia chichesterensis</i>	P3	20	676557	7654109	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676442	7654100	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676365	7654100	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676253	7654093	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676135	7654102	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676062	7654100	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675633	7654104	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675517	7654096	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675421	7654101	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1000	675338	7654204	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675417	7654195	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675494	7654224	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675615	7654197	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675803	7654199	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676162	7654208	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676319	7654204	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676410	7654208	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676545	7654209	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676587	7654301	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676512	7654296	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676382	7654305	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676273	7654301	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676195	7654306	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675677	7654304	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675610	7654303	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675495	7654307	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675418	7654298	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675362	7654309	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675390	7654395	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675469	7654419	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675642	7654416	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675704	7654405	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675778	7654405	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675861	7654408	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675957	7654405	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676243	7654402	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676419	7654404	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676536	7654402	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676599	7654404	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675496	7654499	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675683	7654506	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675757	7654502	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675836	7654504	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675982	7654495	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676086	7654503	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676336	7654511	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676452	7654510	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676575	7654494	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676697	7654501	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676797	7654516	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676737	7654702	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676662	7654707	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676597	7654698	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676451	7654697	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675850	7654713	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675790	7654700	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675713	7654705	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675489	7654709	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675372	7654706	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675319	7654893	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676051	7654898	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676139	7654895	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	1000	676775	7654907	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676711	7655105	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676583	7655103	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676528	7655094	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676199	7655106	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676122	7655102	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675464	7655100	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675432	7655308	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675557	7655294	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675967	7655305	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676051	7655301	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676204	7655299	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676466	7655303	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676561	7655299	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676654	7655298	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676786	7655295	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676821	7655516	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676739	7655505	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676464	7655506	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676374	7655498	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676282	7655506	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675958	7655497	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675871	7655504	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675773	7655508	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675647	7655496	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675568	7655505	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675487	7655509	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675747	7655698	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676111	7655700	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676251	7655703	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676383	7655713	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676511	7655712	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676826	7655696	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676687	7655916	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676595	7655900	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676704	7656095	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675398	7656100	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675395	7656285	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675498	7656313	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675643	7656310	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675737	7656296	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675874	7656302	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675982	7656306	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676726	7656302	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676834	7656310	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676551	7657008	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676558	7657273	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676352	7656984	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676159	7656772	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676143	7656938	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675952	7656910	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675952	7656831	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675956	7656710	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	300	675947	7656474	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675736	7656419	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675751	7656521	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675742	7656603	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675749	7656655	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675849	7662984	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675862	7663100	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675853	7663191	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675853	7663256	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675852	7663373	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675651	7663986	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675656	7663919	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675646	7663800	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675638	7663709	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675653	7663624	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675647	7663519	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675647	7663409	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675641	7663303	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675646	7663133	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675652	7663016	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675645	7662918	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675660	7662795	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675654	7662668	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	675667	7662605	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675636	7662472	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675647	7662331	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675585	7654597	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675614	7654603	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675945	7654615	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676036	7654607	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676081	7654582	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	676177	7654594	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	676355	7654598	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676460	7654606	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676565	7654598	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676622	7654599	Opportunistic
<i>Triodia chichesterensis</i>	P3	20	676835	7654804	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676794	7654805	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676738	7654803	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676634	7654800	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	676552	7654801	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676045	7654801	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675963	7654801	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675374	7654814	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675912	7654999	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675972	7655004	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676043	7655000	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676216	7655004	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676272	7655002	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	676818	7655198	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	676714	7655202	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676641	7655203	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	676477	7655199	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	200	675463	7655209	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675387	7655202	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	675363	7655399	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675515	7655404	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675559	7655398	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675577	7655390	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675766	7655406	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676042	7655401	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676116	7655403	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676187	7655403	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	676257	7655402	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	676338	7655409	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676372	7655400	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	676546	7655401	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676759	7655404	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	676810	7655400	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676799	7655599	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	676544	7655604	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	676489	7655599	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676378	7655603	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676306	7655601	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676178	7655605	Opportunistic
<i>Triodia chichesterensis</i>	P3	600	676111	7655608	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676039	7655593	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675773	7655596	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675693	7655619	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675572	7655597	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675470	7655590	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675630	7655799	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675688	7655800	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	676356	7655797	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676422	7655801	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676529	7655800	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676605	7655804	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	676881	7655976	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676728	7656010	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676007	7656199	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675925	7656206	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675806	7656202	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675760	7656201	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675713	7656188	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675649	7656186	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675603	7656212	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675537	7656201	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675486	7656205	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675559	7656403	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675596	7656432	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675634	7656398	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675697	7656404	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675825	7656400	Opportunistic
<i>Triodia chichesterensis</i>	P3	1	675885	7656395	Opportunistic
<i>Triodia chichesterensis</i>	P3	250	676761	7656403	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	676824	7656400	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	5000	676452	7656887	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	676444	7656988	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676443	7657140	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676255	7657011	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676261	7656939	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	676248	7656882	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	676254	7656811	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	676044	7656479	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	676046	7656821	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	676049	7656891	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	675867	7656855	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675864	7656807	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675854	7656741	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675851	7656669	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675838	7656519	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675642	7656446	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675647	7656516	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675655	7656565	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675947	7663038	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675954	7663093	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675753	7664004	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675757	7663967	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675752	7663903	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675747	7663833	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675745	7663762	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675751	7663673	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675748	7663628	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675748	7663541	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675749	7663499	Opportunistic
<i>Triodia chichesterensis</i>	P3	900	675748	7663461	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675750	7663430	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675748	7663280	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675751	7663238	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675751	7663178	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675742	7663133	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675736	7663068	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675749	7662945	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675750	7662816	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675750	7662777	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675747	7662751	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675750	7662714	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675752	7662669	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675751	7662540	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675951	7662613	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673400	7652034	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	673308	7651668	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673203	7651189	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675699	7650654	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675607	7650652	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675537	7650650	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675413	7650651	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675277	7650651	Opportunistic
<i>Triodia chichesterensis</i>	P3	3000	675170	7650650	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	3000	675061	7650650	Opportunistic
<i>Triodia chichesterensis</i>	P3	400	674661	7650649	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673991	7650649	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673827	7650557	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673965	7650559	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	674037	7650551	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674550	7650542	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674653	7650547	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674746	7650559	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674895	7650551	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	674963	7650551	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675076	7650550	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675206	7650550	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675444	7650552	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675606	7650546	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675679	7650555	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675790	7650543	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675550	7662854	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675551	7662901	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675548	7662990	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675548	7663057	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675551	7663188	Opportunistic
<i>Triodia chichesterensis</i>	P3	1500	675552	7663231	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675551	7663315	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675550	7663404	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675551	7663469	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675551	7663710	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675553	7663815	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675553	7663915	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675448	7663865	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675446	7663485	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675452	7663403	Opportunistic
<i>Triodia chichesterensis</i>	P3	800	675446	7663322	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675450	7663274	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675451	7663191	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675447	7663131	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675448	7663035	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675457	7662961	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675451	7662858	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675454	7662768	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675453	7662710	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675445	7662652	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675451	7662592	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675456	7662548	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	675452	7662463	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675441	7662293	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675462	7662210	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675548	7662259	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675551	7662388	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675553	7662483	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675549	7662552	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	675547	7662632	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675554	7662708	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	300	673981	7659295	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673886	7659220	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673815	7659117	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673684	7659059	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673610	7659027	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673537	7658977	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673461	7658915	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673405	7658862	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673357	7658799	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	673290	7658790	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673170	7658766	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673190	7658896	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673246	7658931	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673305	7658960	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673374	7659019	Opportunistic
<i>Triodia chichesterensis</i>	P3	300	673474	7659061	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673517	7659133	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	673652	7659183	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673700	7659243	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	673770	7659308	Opportunistic
<i>Triodia chichesterensis</i>	P3	8000	669480	7653632	Opportunistic
<i>Triodia chichesterensis</i>	P3	8000	669758	7653473	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	669774	7653867	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	669830	7653569	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	670206	7654811	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	670240	7655180	Opportunistic
<i>Triodia chichesterensis</i>	P3	8000	670437	7653405	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	671378	7653244	Opportunistic
<i>Triodia chichesterensis</i>	P3	8000	671540	7653274	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	671624	7653337	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	671708	7654223	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	671768	7653718	Opportunistic
<i>Triodia chichesterensis</i>	P3	50	671786	7653387	Opportunistic
<i>Triodia chichesterensis</i>	P3	8000	672617	7653195	Opportunistic
<i>Triodia chichesterensis</i>	P3	8000	672693	7653254	Opportunistic
<i>Triodia chichesterensis</i>	P3	4000	672820	7653287	Opportunistic
<i>Triodia chichesterensis</i>	P3	8000	673117	7653340	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	673253	7653942	Opportunistic
<i>Triodia chichesterensis</i>	P3	8000	673385	7653582	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	673964	7652929	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	673990	7651740	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	674028	7652819	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674045	7656578	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674123	7654138	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674124	7653922	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	674224	7651961	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674289	7658737	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674382	7658343	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674390	7655458	Opportunistic
<i>Triodia chichesterensis</i>	P3	10000	674475	7651894	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674532	7652078	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674535	7658421	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	674651	7658453	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Triodia chichesterensis</i>	P3	500	674744	7658351	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	674764	7658862	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674784	7658267	Opportunistic
<i>Triodia chichesterensis</i>	P3	100	674822	7658805	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674844	7653978	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	674845	7658157	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674901	7658031	Opportunistic
<i>Triodia chichesterensis</i>	P3	5000	674910	7655515	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	674930	7654444	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	674940	7654230	Opportunistic
<i>Triodia chichesterensis</i>	P3	2000	675009	7655179	Opportunistic
<i>Triodia chichesterensis</i>	P3	500	675011	7658504	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675073	7654335	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675083	7653859	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675168	7653734	Opportunistic
<i>Triodia chichesterensis</i>	P3	1000	675216	7656159	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	677119	7661121	Opportunistic
<i>Triodia chichesterensis</i>	P3	200	675288	7654729	Quadrat - WD80
<i>Triodia chichesterensis</i>	P3	300	674996	7655241	Quadrat - TRH063
<i>Triodia chichesterensis</i>	P3	500	674623	7655046	Quadrat - WD60
<i>Triodia chichesterensis</i>	P3	200	674911	7655515	Quadrat - TRH066
<i>Triodia chichesterensis</i>	P3	100	674785	7654254	Quadrat - WD62
<i>Triodia chichesterensis</i>	P3		673059	7653962	Quadrat - W04A
<i>Triodia chichesterensis</i>	P3		669865	7653424	Quadrat - WD29
<i>Triodia chichesterensis</i>	P3		671622	7654093	Quadrat - WD19
<i>Triodia chichesterensis</i>	P3	2000	675261	7653742	Quadrat - WD70
<i>Triodia chichesterensis</i>	P3	10000	674337	7651847	Quadrat - WD83
<i>Triodia chichesterensis</i>	P3	2000	669634	7653542	Quadrat - WD31
<i>Triodia chichesterensis</i>	P3	100	674186	7652665	Quadrat - WD92
<i>Triodia chichesterensis</i>	P3	100	673941	7653144	Quadrat - WD86
<i>Triodia chichesterensis</i>	P3	5000	674958	7652144	Quadrat - WD77
<i>Triodia chichesterensis</i>	P3	1	675312	7654780	Quadrat - WD82
<i>Triodia chichesterensis</i>	P3	200	674916	7658464	Quadrat - WD50
<i>Triodia chichesterensis</i>	P3	2000	673280	7653422	Quadrat - TRH056
<i>Triodia chichesterensis</i>	P3	10000	669878	7654237	Quadrat - WD35
<i>Triodia chichesterensis</i>	P3	1000	675107	7657788	Quadrat - WD48
<i>Triodia chichesterensis</i>	P3	6000	674821	7658360	Quadrat - WD52
<i>Triodia chichesterensis</i>	P3	10000	674656	7658575	Quadrat - WD44
<i>Triodia chichesterensis</i>	P3	1000	675030	7654362	Quadrat - WD78
<i>Vigna triodiophila</i>	P3	8	672948	7658458	Opportunistic
<i>Vigna triodiophila</i>	P3	30	672949	7658439	Opportunistic
<i>Vigna triodiophila</i>	P3	20	672891	7658433	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672833	7658415	Opportunistic
<i>Vigna triodiophila</i>	P3	100	672807	7658433	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672514	7658627	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672498	7658640	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672487	7658654	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672495	7658687	Opportunistic
<i>Vigna triodiophila</i>	P3	5	672646	7658391	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672613	7658373	Opportunistic
<i>Vigna triodiophila</i>	P3	20	672566	7658521	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672529	7658650	Opportunistic
<i>Vigna triodiophila</i>	P3	5	672682	7658353	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Vigna triodiophila</i>	P3	2	672705	7658357	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672805	7658371	Opportunistic
<i>Vigna triodiophila</i>	P3	15	672822	7658387	Opportunistic
<i>Vigna triodiophila</i>	P3	30	672870	7658425	Opportunistic
<i>Vigna triodiophila</i>	P3	2	672690	7658327	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672722	7657748	Opportunistic
<i>Vigna triodiophila</i>	P3	8	672541	7658948	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672645	7658446	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672609	7658885	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672608	7658867	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672609	7658837	Opportunistic
<i>Vigna triodiophila</i>	P3	20	672854	7658579	Opportunistic
<i>Vigna triodiophila</i>	P3	25	672871	7658567	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672882	7658589	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672899	7658576	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672978	7658576	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672989	7658576	Opportunistic
<i>Vigna triodiophila</i>	P3	1	673009	7658595	Opportunistic
<i>Vigna triodiophila</i>	P3	8	673018	7658619	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672912	7658566	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672923	7658574	Opportunistic
<i>Vigna triodiophila</i>	P3	25	672931	7658577	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672693	7657542	Opportunistic
<i>Vigna triodiophila</i>	P3	20	672705	7657580	Opportunistic
<i>Vigna triodiophila</i>	P3	5	672182	7658317	Opportunistic
<i>Vigna triodiophila</i>	P3	4	672745	7657625	Opportunistic
<i>Vigna triodiophila</i>	P3	4	672745	7657791	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672744	7657822	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672749	7657851	Opportunistic
<i>Vigna triodiophila</i>	P3	8	673319	7659446	Opportunistic
<i>Vigna triodiophila</i>	P3	9	673311	7659447	Opportunistic
<i>Vigna triodiophila</i>	P3	5	673304	7659449	Opportunistic
<i>Vigna triodiophila</i>	P3	6	673284	7659453	Opportunistic
<i>Vigna triodiophila</i>	P3	4	673269	7659449	Opportunistic
<i>Vigna triodiophila</i>	P3	3	673257	7659441	Opportunistic
<i>Vigna triodiophila</i>	P3	10	673324	7659390	Opportunistic
<i>Vigna triodiophila</i>	P3	3	673433	7659593	Opportunistic
<i>Vigna triodiophila</i>	P3	12	673489	7659603	Opportunistic
<i>Vigna triodiophila</i>	P3	10	673535	7659617	Opportunistic
<i>Vigna triodiophila</i>	P3	15	673540	7659610	Opportunistic
<i>Vigna triodiophila</i>	P3	10	673545	7659603	Opportunistic
<i>Vigna triodiophila</i>	P3	3	673167	7659422	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672911	7657772	Opportunistic
<i>Vigna triodiophila</i>	P3	3	672919	7658360	Opportunistic
<i>Vigna triodiophila</i>	P3	50	672938	7658581	Opportunistic
<i>Vigna triodiophila</i>	P3	20	672957	7658579	Opportunistic
<i>Vigna triodiophila</i>	P3	3	673580	7659659	Opportunistic
<i>Vigna triodiophila</i>	P3	2	673572	7659652	Opportunistic
<i>Vigna triodiophila</i>	P3	2	673567	7659654	Opportunistic
<i>Vigna triodiophila</i>	P3	1	673562	7659647	Opportunistic
<i>Vigna triodiophila</i>	P3	3	673552	7659639	Opportunistic
<i>Vigna triodiophila</i>	P3	2	673546	7659638	Opportunistic
<i>Vigna triodiophila</i>	P3	12	673529	7659623	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Vigna triodiophila</i>	P3	7	673517	7659612	Opportunistic
<i>Vigna triodiophila</i>	P3	3	673512	7659608	Opportunistic
<i>Vigna triodiophila</i>	P3	10	673435	7659516	Opportunistic
<i>Vigna triodiophila</i>	P3	12	673431	7659517	Opportunistic
<i>Vigna triodiophila</i>	P3	3	673426	7659507	Opportunistic
<i>Vigna triodiophila</i>	P3	15	673417	7659513	Opportunistic
<i>Vigna triodiophila</i>	P3	5	673417	7659462	Opportunistic
<i>Vigna triodiophila</i>	P3	5	673413	7659453	Opportunistic
<i>Vigna triodiophila</i>	P3	2	673406	7659440	Opportunistic
<i>Vigna triodiophila</i>	P3	9	673396	7659431	Opportunistic
<i>Vigna triodiophila</i>	P3	2	673383	7659431	Opportunistic
<i>Vigna triodiophila</i>	P3	10	673373	7659433	Opportunistic
<i>Vigna triodiophila</i>	P3	5	673344	7659435	Opportunistic
<i>Vigna triodiophila</i>	P3	20	673573	7659673	Opportunistic
<i>Vigna triodiophila</i>	P3	3	673547	7659635	Opportunistic
<i>Vigna triodiophila</i>	P3	40	673524	7659631	Opportunistic
<i>Vigna triodiophila</i>	P3	50	673523	7659605	Opportunistic
<i>Vigna triodiophila</i>	P3	30	673514	7659543	Opportunistic
<i>Vigna triodiophila</i>	P3	25	673259	7659508	Opportunistic
<i>Vigna triodiophila</i>	P3	20	673421	7659612	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672783	7657826	Opportunistic
<i>Vigna triodiophila</i>	P3	25	672796	7658379	Opportunistic
<i>Vigna triodiophila</i>	P3	20	672844	7657702	Opportunistic
<i>Vigna triodiophila</i>	P3	6	672857	7657612	Opportunistic
<i>Vigna triodiophila</i>	P3	10	673440	7659486	Opportunistic
<i>Vigna triodiophila</i>	P3	50	673412	7659491	Opportunistic
<i>Vigna triodiophila</i>	P3	40	673399	7659456	Opportunistic
<i>Vigna triodiophila</i>	P3	75	673366	7659486	Opportunistic
<i>Vigna triodiophila</i>	P3	55	673328	7659481	Opportunistic
<i>Vigna triodiophila</i>	P3	8	673299	7659471	Opportunistic
<i>Vigna triodiophila</i>	P3	80	673278	7659483	Opportunistic
<i>Vigna triodiophila</i>	P3	65	673215	7659432	Opportunistic
<i>Vigna triodiophila</i>	P3	5	673354	7659223	Opportunistic
<i>Vigna triodiophila</i>	P3	50	673384	7659220	Opportunistic
<i>Vigna triodiophila</i>	P3	30	673428	7659235	Opportunistic
<i>Vigna triodiophila</i>	P3	55	673474	7659262	Opportunistic
<i>Vigna triodiophila</i>	P3	75	673455	7659616	Opportunistic
<i>Vigna triodiophila</i>	P3	5	673527	7659662	Opportunistic
<i>Vigna triodiophila</i>	P3	35	673552	7659664	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672930	7658498	Opportunistic
<i>Vigna triodiophila</i>	P3	9	672926	7658496	Opportunistic
<i>Vigna triodiophila</i>	P3	5	672925	7658494	Opportunistic
<i>Vigna triodiophila</i>	P3	3	672919	7658493	Opportunistic
<i>Vigna triodiophila</i>	P3	2	672917	7658490	Opportunistic
<i>Vigna triodiophila</i>	P3	2	672912	7658488	Opportunistic
<i>Vigna triodiophila</i>	P3	6	672909	7658485	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672903	7658486	Opportunistic
<i>Vigna triodiophila</i>	P3	6	672900	7658488	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672893	7658494	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672889	7658497	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672887	7658500	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672883	7658502	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672881	7658501	Opportunistic

Taxon	Significance	Count	Easting	Northing	Comments
<i>Vigna triodiophila</i>	P3	6	672880	7658499	Opportunistic
<i>Vigna triodiophila</i>	P3	2	672839	7658470	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672833	7658466	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672833	7658457	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672830	7658445	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672830	7658437	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672835	7658433	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672834	7658422	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672822	7658417	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672815	7658421	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672812	7658426	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672808	7658425	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672801	7658424	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672613	7657437	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672604	7657450	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672689	7658348	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672713	7658350	Opportunistic
<i>Vigna triodiophila</i>	P3	30	672409	7658600	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672410	7658616	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672406	7658630	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672787	7658411	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672652	7658434	Opportunistic
<i>Vigna triodiophila</i>	P3	5	672368	7659086	Opportunistic
<i>Vigna triodiophila</i>	P3	5	672399	7658831	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672423	7658731	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672422	7658743	Opportunistic
<i>Vigna triodiophila</i>	P3	5	672410	7658643	Opportunistic
<i>Vigna triodiophila</i>	P3	5	672424	7658669	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672427	7658680	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672421	7658688	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672424	7658699	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672425	7658705	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672421	7658707	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672906	7658615	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672912	7658608	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672751	7659012	Opportunistic
<i>Vigna triodiophila</i>	P3	20	672738	7659040	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672787	7658594	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672805	7658590	Opportunistic
<i>Vigna triodiophila</i>	P3	25	672505	7657603	Opportunistic
<i>Vigna triodiophila</i>	P3	45	672784	7657591	Opportunistic
<i>Vigna triodiophila</i>	P3	20	672804	7657624	Opportunistic
<i>Vigna triodiophila</i>	P3	3	672809	7657695	Opportunistic
<i>Vigna triodiophila</i>	P3	10	672772	7657801	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672970	7658589	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672980	7658595	Opportunistic
<i>Vigna triodiophila</i>	P3	1	672830	7658608	Opportunistic

Introduced Flora

Taxon	Count	Easting	Northing	Comments
<i>Aerva javanica</i>	1	674821	7656536	Quadrat - WD56
<i>Aerva javanica</i>	1	673946	7653210	Quadrat - WD84
<i>Aerva javanica</i>	1	674043	7652926	Quadrat - WD90
<i>Aerva javanica</i>	2	674930	7657046	Opportunistic
<i>Aerva javanica</i>	5	674762	7655327	Opportunistic
<i>Aerva javanica</i>	5	674374	7655530	Opportunistic
<i>Aerva javanica</i>	9	674005	7656557	Quadrat - WD34
<i>Aerva javanica</i>	10	674085	7656603	Opportunistic
<i>Aerva javanica</i>	10	674086	7656674	Opportunistic
<i>Aerva javanica</i>	15	674734	7653978	Quadrat - WD64
<i>Aerva javanica</i>	20	674023	7656576	Opportunistic
<i>Aerva javanica</i>	20	675028	7657932	Opportunistic
<i>Aerva javanica</i>	30	674405	7658892	Opportunistic
<i>Aerva javanica</i>	30	674162	7656441	Quadrat - WD36
<i>Aerva javanica</i>	50	674064	7656498	Opportunistic
<i>Aerva javanica</i>	50	675170	7658193	Opportunistic
<i>Aerva javanica</i>	50	675022	7656688	Opportunistic
<i>Aerva javanica</i>	50	674930	7656374	Opportunistic
<i>Aerva javanica</i>	50	674979	7657976	Opportunistic
<i>Aerva javanica</i>	50	674915	7656516	Opportunistic
<i>Aerva javanica</i>	50	674218	7658307	Opportunistic
<i>Aerva javanica</i>	50	674266	7657046	Opportunistic
<i>Aerva javanica</i>	100	674989	7656588	Opportunistic
<i>Aerva javanica</i>	100	674772	7656907	Opportunistic
<i>Aerva javanica</i>	100	674784	7657481	Opportunistic
<i>Aerva javanica</i>	100	674787	7658750	Opportunistic
<i>Aerva javanica</i>	100	674229	7658670	Opportunistic
<i>Aerva javanica</i>	200	675140	7658288	Opportunistic
<i>Aerva javanica</i>	200	675150	7655490	Opportunistic
<i>Aerva javanica</i>	200	674698	7658810	Opportunistic
<i>Aerva javanica</i>	500	674124	7656311	Opportunistic
<i>Aerva javanica</i>	500	675087	7656669	Quadrat - WD54
<i>Aerva javanica</i>		670127	7656414	Quadrat - WD47
<i>Aerva javanica</i>		675159	7655527	Quadrat - TRH065
<i>Aerva javanica</i>		670696	7653373	Quadrat - WD25
<i>Aerva javanica</i>		675294	7655120	Quadrat - TRH064
<i>Aerva javanica</i>		672995	7654086	Quadrat - WD23
<i>Aerva javanica</i>		669634	7653542	Quadrat - WD31
<i>Aerva javanica</i>	1	676311	7655678	Quadrat - WDK16
<i>Aerva javanica</i>	100	676217	7659883	Quadrat - WDK19
<i>Aerva javanica</i>	5	676514	7654940	Quadrat - WDM05
<i>Aerva javanica</i>	3	676294	7654736	Quadrat - WDM06
<i>Aerva javanica</i>	100	675792	7657191	Opportunistic
<i>Aerva javanica</i>	20	675963	7657288	Opportunistic
<i>Aerva javanica</i>	20	676208	7657284	Opportunistic
<i>Aerva javanica</i>	150	676316	7657230	Opportunistic
<i>Aerva javanica</i>	2	676333	7654755	Opportunistic
<i>Aerva javanica</i>	1	673904	7659300	Opportunistic

Taxon	Count	Easting	Northing	Comments
<i>Aerva javanica</i>	150	675101	7658576	Opportunistic
<i>Aerva javanica</i>	75	675459	7654851	Opportunistic
<i>Aerva javanica</i>	70	676478	7654852	Opportunistic
<i>Aerva javanica</i>	50	675381	7655048	Opportunistic
<i>Aerva javanica</i>	10	676561	7654905	Opportunistic
<i>Aerva javanica</i>	10	676494	7657758	Opportunistic
<i>Aerva javanica</i>	50	676489	7654801	Opportunistic
<i>Aerva javanica</i>	200	675923	7654797	Opportunistic
<i>Calotropis procera</i>	1	674890	7656552	Opportunistic
<i>Calotropis procera</i>	2	674581	7655450	Opportunistic
<i>Calotropis procera</i>	1	674874	7656607	Opportunistic
<i>Cenchrus ciliaris</i>	2	674043	7652926	Quadrat - WD90
<i>Cenchrus ciliaris</i>	4	677015	7661962	Quadrat - WD12
<i>Cenchrus ciliaris</i>	8	675818	7660958	Opportunistic
<i>Cenchrus ciliaris</i>	8	675087	7656669	Quadrat - WD54
<i>Cenchrus ciliaris</i>	10	674085	7656603	Opportunistic
<i>Cenchrus ciliaris</i>	10	676820	7661630	Opportunistic
<i>Cenchrus ciliaris</i>	10	676807	7661526	Quadrat - WD16
<i>Cenchrus ciliaris</i>	15	676980	7661374	Opportunistic
<i>Cenchrus ciliaris</i>	30	676522	7661016	Quadrat - WD28
<i>Cenchrus ciliaris</i>	30	675312	7654780	Quadrat - WD82
<i>Cenchrus ciliaris</i>	50	676666	7661650	Opportunistic
<i>Cenchrus ciliaris</i>	50	675063	7659884	Opportunistic
<i>Cenchrus ciliaris</i>	100	676814	7661742	Opportunistic
<i>Cenchrus ciliaris</i>	100	675104	7656173	Opportunistic
<i>Cenchrus ciliaris</i>	100	674956	7657989	Opportunistic
<i>Cenchrus ciliaris</i>	100	674875	7657477	Opportunistic
<i>Cenchrus ciliaris</i>	100	674483	7658392	Opportunistic
<i>Cenchrus ciliaris</i>	100	674687	7657498	Opportunistic
<i>Cenchrus ciliaris</i>	100	674477	7658584	Opportunistic
<i>Cenchrus ciliaris</i>	100	674103	7656645	Opportunistic
<i>Cenchrus ciliaris</i>	200	674979	7657976	Opportunistic
<i>Cenchrus ciliaris</i>	200	674706	7657488	Opportunistic
<i>Cenchrus ciliaris</i>	200	674229	7658670	Opportunistic
<i>Cenchrus ciliaris</i>	500	674124	7656311	Opportunistic
<i>Cenchrus ciliaris</i>	1000	675028	7657932	Opportunistic
<i>Cenchrus ciliaris</i>	1000	675003	7659951	Opportunistic
<i>Cenchrus ciliaris</i>	1000	675016	7656233	Opportunistic
<i>Cenchrus ciliaris</i>	1000	674734	7653978	Quadrat - WD64
<i>Cenchrus ciliaris</i>	5000	674930	7656374	Opportunistic
<i>Cenchrus ciliaris</i>	10000	675140	7658288	Opportunistic
<i>Cenchrus ciliaris</i>	10000	675150	7655490	Opportunistic
<i>Cenchrus ciliaris</i>	10000	675170	7658193	Opportunistic
<i>Cenchrus ciliaris</i>	10000	675035	7659915	Opportunistic
<i>Cenchrus ciliaris</i>	10000	674798	7659543	Opportunistic
<i>Cenchrus ciliaris</i>	10000	674784	7657481	Opportunistic
<i>Cenchrus ciliaris</i>	10000	674787	7658750	Opportunistic
<i>Cenchrus ciliaris</i>	10000	674594	7658868	Opportunistic
<i>Cenchrus ciliaris</i>	10000	674698	7658810	Opportunistic
<i>Cenchrus ciliaris</i>	10000	674405	7658892	Opportunistic
<i>Cenchrus ciliaris</i>	10000	674218	7658307	Opportunistic

Taxon	Count	Easting	Northing	Comments
<i>Cenchrus ciliaris</i>	10000	674266	7657046	Opportunistic
<i>Cenchrus ciliaris</i>		676348	7663040	Quadrat - WD65
<i>Cenchrus ciliaris</i>		675678	7661814	Quadrat - WD73
<i>Cenchrus ciliaris</i>		674802	7662311	Quadrat - WD91
<i>Cenchrus ciliaris</i>		675294	7655120	Quadrat - TRH064
<i>Cenchrus ciliaris</i>		675159	7655527	Quadrat - TRH065
<i>Cenchrus ciliaris</i>		673796	7653684	Quadrat - TRH058
<i>Cenchrus ciliaris</i>		671224	7654427	Quadrat - WDM25
<i>Cenchrus ciliaris</i>	3000	676294	7654736	Quadrat - WDM06
<i>Cenchrus ciliaris</i>	200	676514	7654940	Quadrat - WDM05
<i>Cenchrus ciliaris</i>		676532	7658901	Quadrat - WDM12
<i>Cenchrus ciliaris</i>	1	676217	7659883	Quadrat - WDK19
<i>Cenchrus ciliaris</i>	20	675882	7654558	Opportunistic
<i>Cenchrus ciliaris</i>	1000	676333	7654755	Opportunistic
<i>Cenchrus ciliaris</i>	1000	675415	7654950	Opportunistic
<i>Cenchrus ciliaris</i>	1	676574	7654956	Opportunistic
<i>Cenchrus ciliaris</i>	1000	676718	7654958	Opportunistic
<i>Cenchrus ciliaris</i>	50	673936	7659306	Opportunistic
<i>Cenchrus ciliaris</i>	2000	673904	7659300	Opportunistic
<i>Cenchrus ciliaris</i>	2000	673619	7659273	Opportunistic
<i>Cenchrus ciliaris</i>	100	673864	7659445	Opportunistic
<i>Cenchrus ciliaris</i>	250	676204	7654663	Opportunistic
<i>Cenchrus ciliaris</i>	1500	676136	7654698	Opportunistic
<i>Cenchrus ciliaris</i>	600	675101	7658576	Opportunistic
<i>Cenchrus ciliaris</i>	70	676139	7653848	Opportunistic
<i>Cenchrus ciliaris</i>	60	676017	7653843	Opportunistic
<i>Cenchrus ciliaris</i>	150	675460	7654056	Opportunistic
<i>Cenchrus ciliaris</i>	200	675514	7654152	Opportunistic
<i>Cenchrus ciliaris</i>	60	675586	7654257	Opportunistic
<i>Cenchrus ciliaris</i>	60	675594	7654351	Opportunistic
<i>Cenchrus ciliaris</i>	250	675624	7654449	Opportunistic
<i>Cenchrus ciliaris</i>	150	675928	7654653	Opportunistic
<i>Cenchrus ciliaris</i>	500	675816	7654651	Opportunistic
<i>Cenchrus ciliaris</i>	100	675685	7654646	Opportunistic
<i>Cenchrus ciliaris</i>	700	675459	7654851	Opportunistic
<i>Cenchrus ciliaris</i>	30	676401	7654851	Opportunistic
<i>Cenchrus ciliaris</i>	500	676478	7654852	Opportunistic
<i>Cenchrus ciliaris</i>	300	675381	7655048	Opportunistic
<i>Cenchrus ciliaris</i>	1000	675567	7654207	Opportunistic
<i>Cenchrus ciliaris</i>	100	676415	7654697	Opportunistic
<i>Cenchrus ciliaris</i>	200	676320	7654701	Opportunistic
<i>Cenchrus ciliaris</i>	1000	676225	7654702	Opportunistic
<i>Cenchrus ciliaris</i>	1000	676120	7654703	Opportunistic
<i>Cenchrus ciliaris</i>	1000	675942	7654694	Opportunistic
<i>Cenchrus ciliaris</i>	1000	675439	7654905	Opportunistic
<i>Cenchrus ciliaris</i>	100	676494	7654902	Opportunistic
<i>Cenchrus ciliaris</i>	2000	676621	7654906	Opportunistic
<i>Cenchrus ciliaris</i>	2000	676739	7654907	Opportunistic
<i>Cenchrus ciliaris</i>	100	675614	7654603	Opportunistic
<i>Cenchrus ciliaris</i>	5000	676489	7654801	Opportunistic
<i>Cenchrus ciliaris</i>	3000	675923	7654797	Opportunistic

Taxon	Count	Easting	Northing	Comments
<i>Cenchrus ciliaris</i>	5000	675521	7654788	Opportunistic
<i>Cenchrus ciliaris</i>	300	676694	7655004	Opportunistic
<i>Cenchrus ciliaris</i>	1000	673928	7659258	Opportunistic
<i>Cenchrus setiger</i>	5	675003	7659951	Opportunistic
<i>Cenchrus setiger</i>	5	676522	7661016	Quadrat - WD28
<i>Cenchrus setiger</i>	20	674864	7659830	Opportunistic
<i>Cenchrus setiger</i>	70	674908	7659892	Opportunistic
<i>Cenchrus setiger</i>	100	674086	7656674	Opportunistic
<i>Cenchrus setiger</i>	200	676368	7660934	Opportunistic
<i>Cenchrus setiger</i>	1000	675150	7655490	Opportunistic
<i>Cenchrus setiger</i>	1000	675035	7659915	Opportunistic
<i>Cenchrus setiger</i>	5000	675000	7654036	Opportunistic
<i>Cenchrus setiger</i>		675294	7655120	Quadrat - TRH064
<i>Cenchrus setiger</i>		675159	7655527	Quadrat - TRH065
<i>Cenchrus setiger</i>		675678	7661814	Quadrat - WD73
<i>Cenchrus setiger</i>		676294	7654736	Quadrat - WDM06
<i>Cenchrus setiger</i>	500	675621	7654547	Opportunistic
<i>Cenchrus setiger</i>	1000	676333	7654755	Opportunistic
<i>Cenchrus setiger</i>	1000	675415	7654950	Opportunistic
<i>Cenchrus setiger</i>	10	676017	7653843	Opportunistic
<i>Cenchrus setiger</i>	200	675460	7654056	Opportunistic
<i>Cenchrus setiger</i>	100	675514	7654152	Opportunistic
<i>Cenchrus setiger</i>	40	675586	7654257	Opportunistic
<i>Cenchrus setiger</i>	30	675594	7654351	Opportunistic
<i>Cenchrus setiger</i>	50	675624	7654449	Opportunistic
<i>Cenchrus setiger</i>	250	675928	7654653	Opportunistic
<i>Cenchrus setiger</i>	1000	675816	7654651	Opportunistic
<i>Cenchrus setiger</i>	2000	675685	7654646	Opportunistic
<i>Cenchrus setiger</i>	500	675459	7654851	Opportunistic
<i>Cenchrus setiger</i>	150	675381	7655048	Opportunistic
<i>Cenchrus setiger</i>	10	675614	7654603	Opportunistic
<i>Chloris barbata</i>	5	674103	7656645	Opportunistic
<i>Cynodon dactylon</i>	10	674276	7657086	Opportunistic
<i>Flaveria trinervia</i>	20	674276	7657086	Opportunistic
<i>Flaveria trinervia</i>		672173	7656268	Quadrat - WD11
<i>Flaveria trinervia</i>		671224	7654427	Quadrat - WDM25
<i>Passiflora foetida</i> var. <i>hispida</i>	1	674086	7656674	Opportunistic
<i>Passiflora foetida</i> var. <i>hispida</i>	1	674124	7656311	Opportunistic
<i>Passiflora foetida</i> var. <i>hispida</i>	5	674162	7656441	Quadrat - WD36

Appendix H: Significant Flora Locations

670000

672000

Legend

Study Area

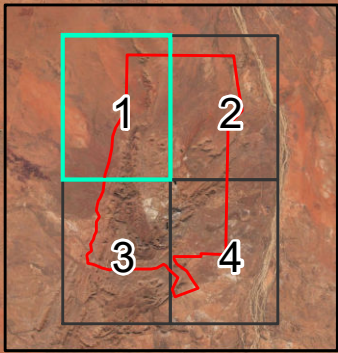
Vegetation Types

Significant Flora (2018/2019)

- *Euphorbia clementii* (P3)
- *Terminalia supranitifolia* (P3)
- *Triodia chichesterensis* (P3)
- *Vigna triodiophila* (P3)

Significant Flora (Previous Surveys)

- ▲ *Euphorbia clementii* (P3)
- ▲ *Terminalia supranitifolia* (P3)
- ▲ *Triodia chichesterensis* (P3)
- ▲ *Vigna triodiophila* (P3)



7664000

7664000

7662000

7662000

7660000

7660000

7658000

7658000

670000

672000



Significant Flora Locations

Author: David Coultas

WEC Ref: MRL19-19-04

Filename: MRL19-19-04-App-H.mxd

Projection: GDA 1994 MGA Zone 50

Appendix

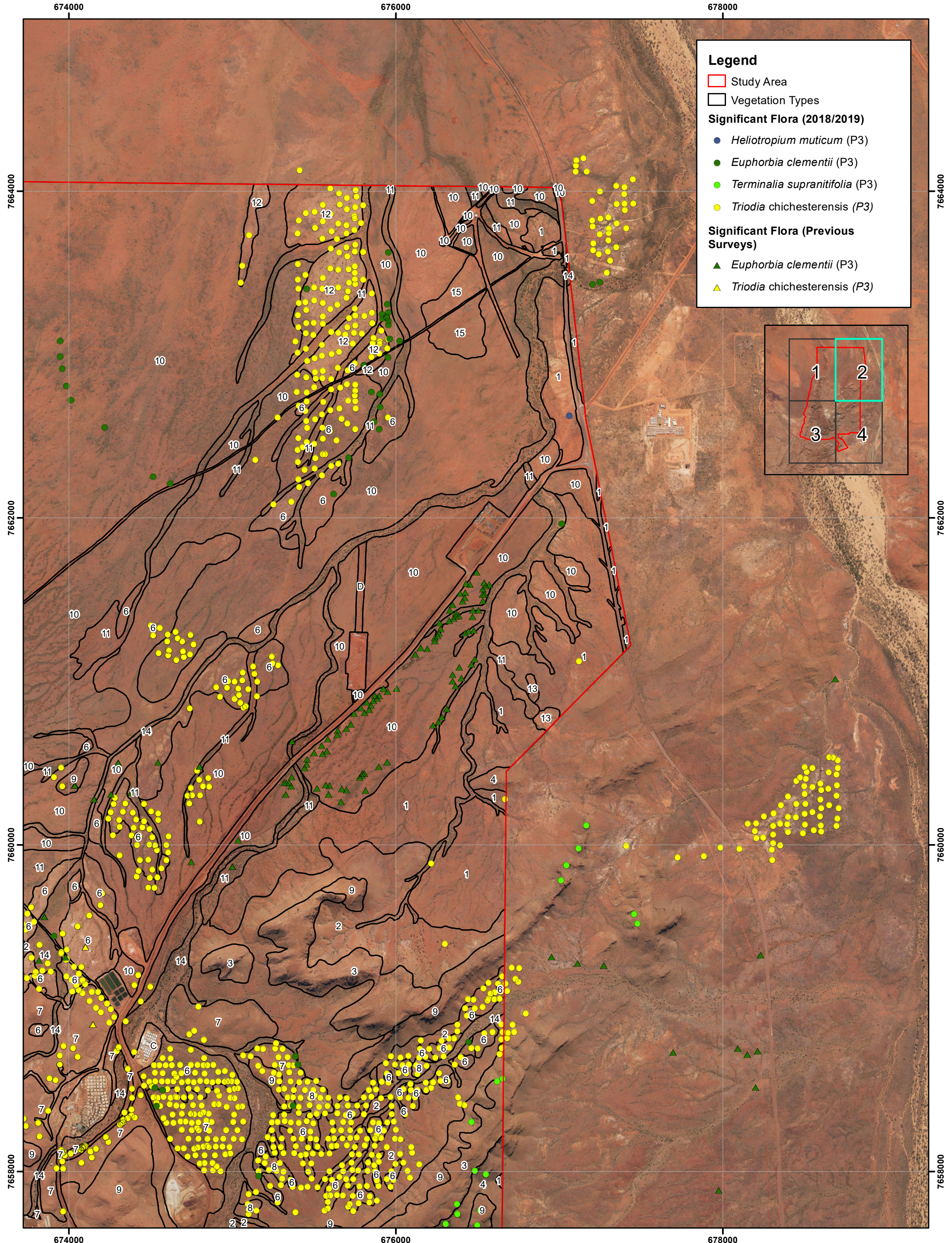
H1

This map should only be used in conjunction with WEC report MRL19-19-04.

Revision: 0 - 4 Apr 2020

Scale: 1:20,000 (A3)





Legend

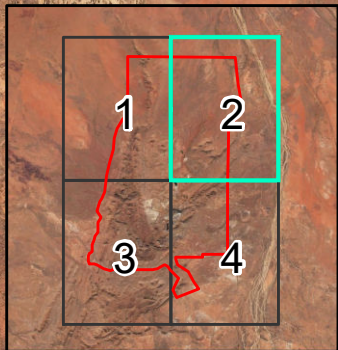
- Study Area
- Vegetation Types

Significant Flora (2018/2019)

- *Heliotropium muticum* (P3)
- *Euphorbia clementii* (P3)
- *Terminalia supranitifolia* (P3)
- *Triodia chichesterensis* (P3)

Significant Flora (Previous Surveys)

- ▲ *Euphorbia clementii* (P3)
- ▲ *Triodia chichesterensis* (P3)



This map should only be used in conjunction with WEC report MRL19-19-04.

Significant Flora Locations

Revision: 0 - 4 Apr 2020 Scale: 1:20,000 (A3)

Author: David Coultas
 WEC Ref: MRL19-19-04
 Filename: MRL19-19-04-App-H.mxd
 Projection: GDA 1994 MGA Zone 50

Appendix

H2

670000

672000

Legend

Study Area

Vegetation Types

Significant Flora (2018/2019)

- *Abutilon aff. hannii*
- *Euphorbia clementii* (P3)
- *Terminalia supranitifolia* (P3)
- *Triodia chichesterensis* (P3)
- *Vigna triodiophila* (P3)

Significant Flora (Previous Surveys)

- ▲ *Euphorbia clementii* (P3)
- ▲ *Terminalia supranitifolia* (P3)
- ▲ *Triodia chichesterensis* (P3)

7656000

7656000

7654000

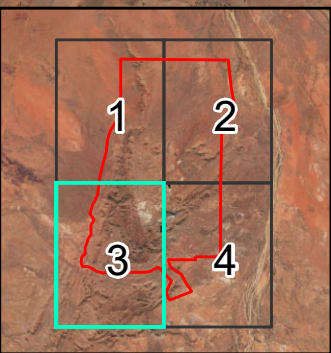
7654000

7652000

7652000

670000

672000



WOODMAN
ENVIRONMENTAL

This map should only be used in conjunction with WEC report MRL19-19-04.



Significant Flora Locations

Revision: 0 - 4 Apr 2020

Scale: 1:20,000 (A3)

Author: David Coultas

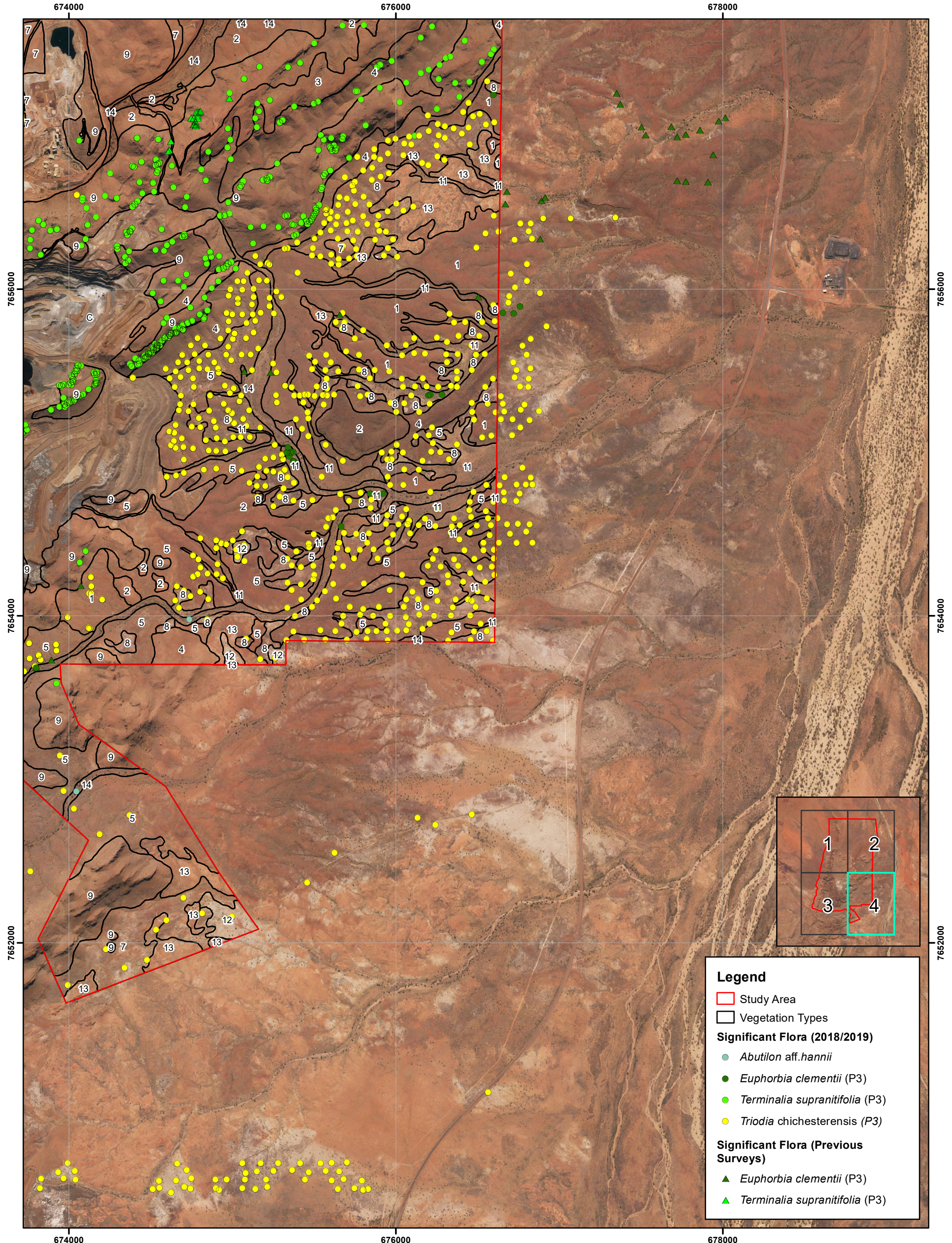
WEC Ref: MRL19-19-04

Filename: MRL19-19-04-App-H.mxd

Projection: GDA 1994 MGA Zone 50

Appendix

H3



Legend

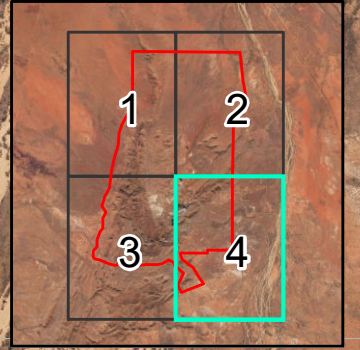
- Study Area
- Vegetation Types

Significant Flora (2018/2019)

- *Abutilon* aff. *hannii*
- *Euphorbia clementii* (P3)
- *Terminalia supranitifolia* (P3)
- *Triodia chichesterensis* (P3)

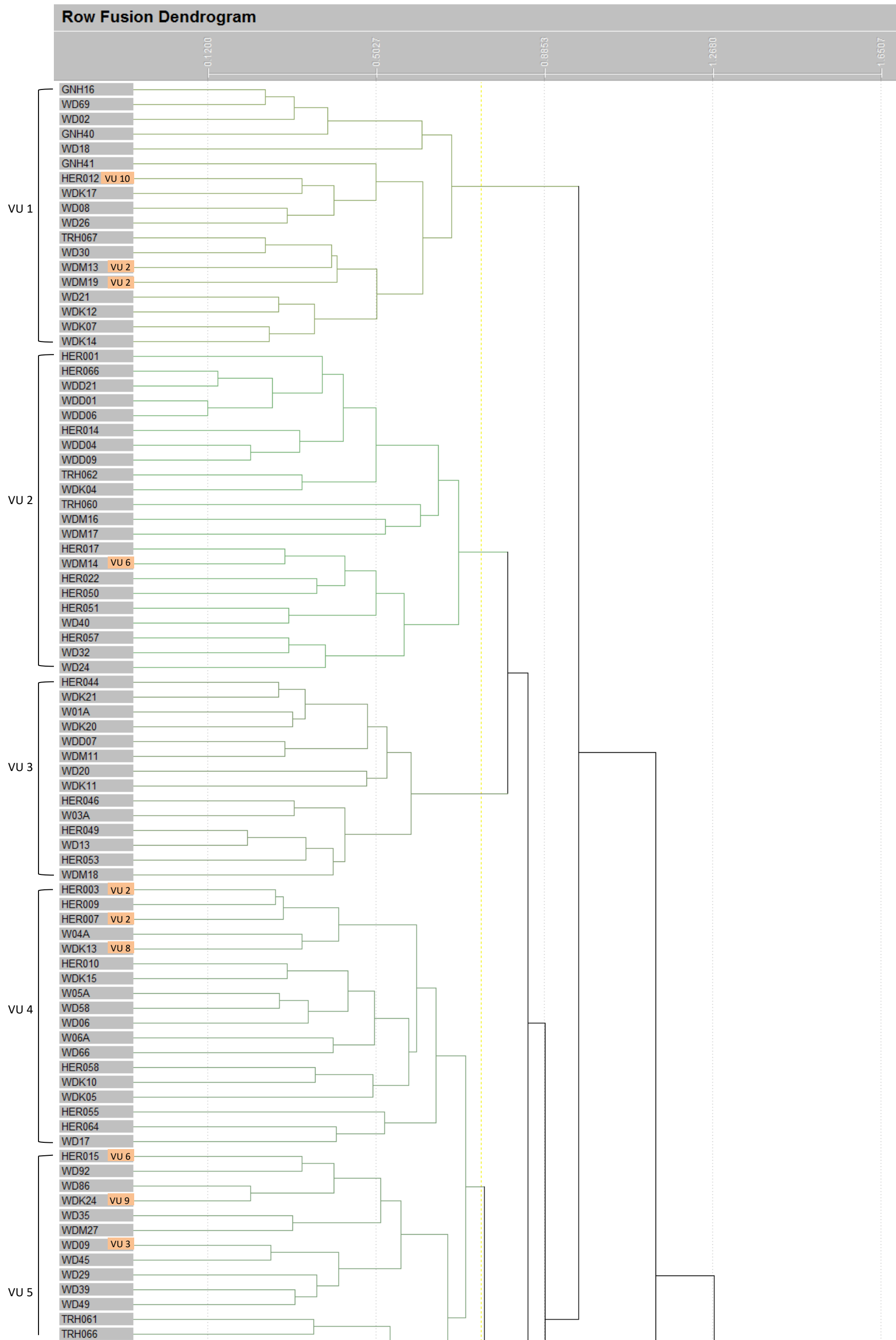
Significant Flora (Previous Surveys)

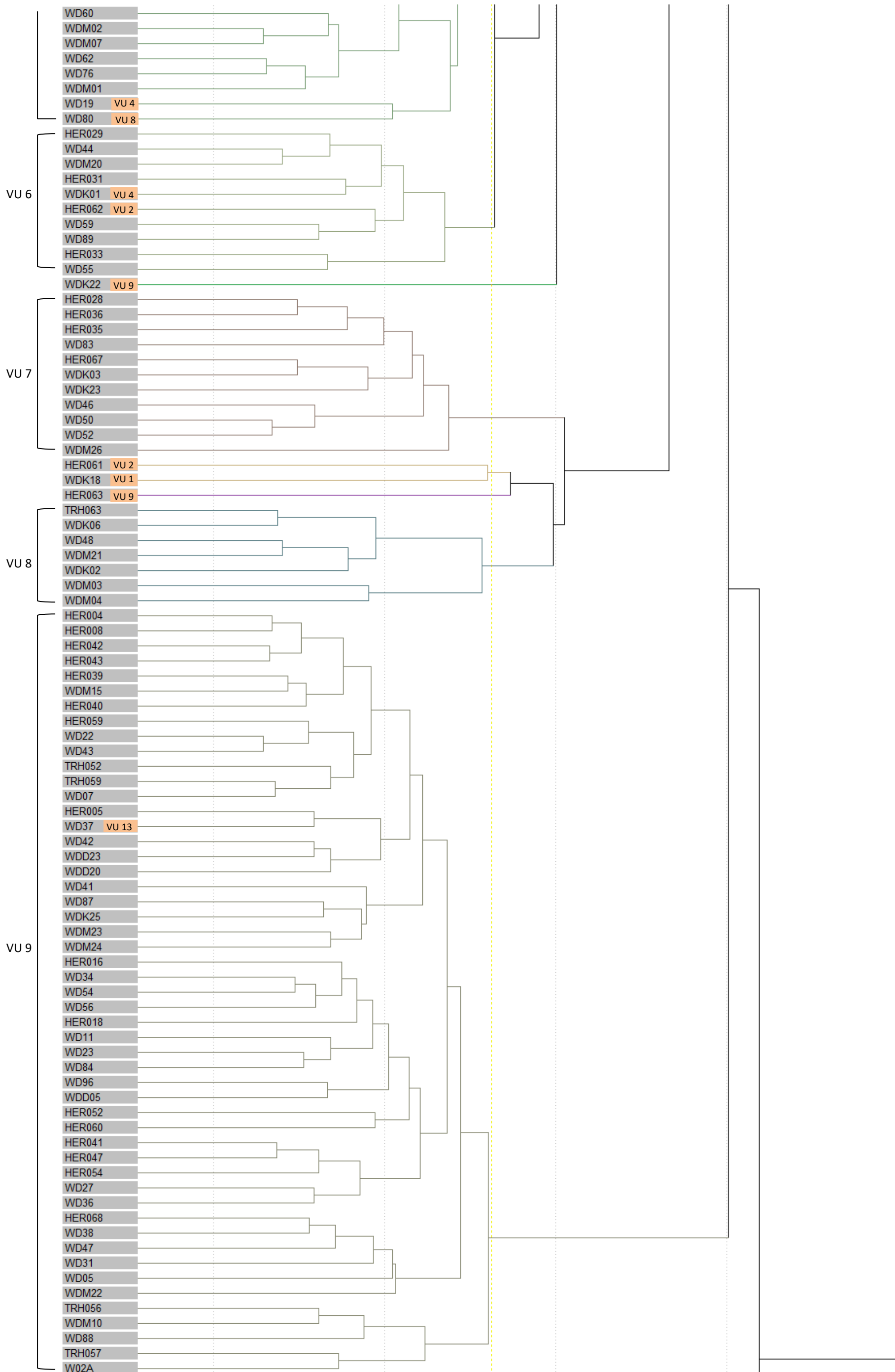
- ▲ *Euphorbia clementii* (P3)
- ▲ *Terminalia supranitifolia* (P3)

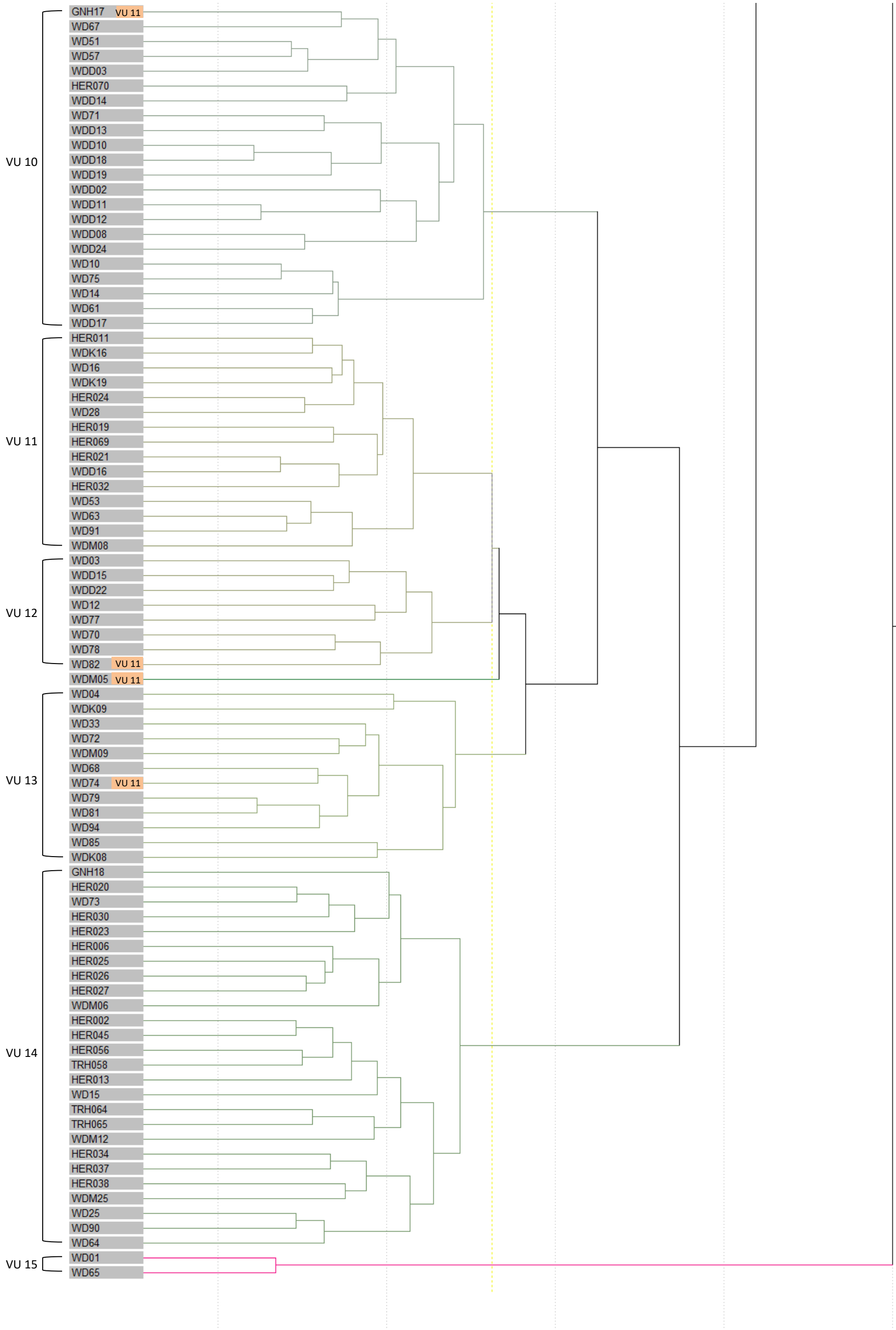


Appendix I: Classification Analysis Dendrogram of Quadrats Established in the Study Area

Note: Original dendrogram groupings are indicated by different coloured clusters
Quadrats shaded with orange have been manually reallocated to the VU as described







Appendix J: Results of Indicator Species Analysis of Vegetation Units

Note: -Shading denotes highest indicator values per taxon;
-Indicator values are shown only for taxa which were significant at $P < 0.05$ (* = $p < 0.05$; ** = $p < 0.01$;
*** = $p < 0.001$)

Taxon	Vegetation Unit														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>Triodia lanigera</i> ***	28	1	0	0	3	1	0	0	0	23	8	0	5	0	0
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> **	0	0	23	3	0	0	0	0	2	0	0	0	1	0	0
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)*	0	0	25	5	1	0	0	0	1	0	6	0	5	0	0
<i>Triumfetta maconochieana</i> *	0	0	16	8	0	0	0	0	9	0	0	0	1	1	0
<i>Senna glutinosa</i> subsp. <i>glutinosa</i> *	0	0	0	18	2	0	0	0	11	0	0	4	1	4	0
<i>Acacia spondylophylla</i> **	0	0	0	0	19	0	0	1	0	0	2	0	8	0	0
<i>Cassytha capillaris</i> *	0	0	1	2	1	17	0	5	1	0	10	3	0	1	0
<i>Boerhavia gardneri</i> *	0	0	0	1	1	7	22	0	5	0	0	1	0	2	0
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i> *	0	1	0	1	0	1	16	0	2	0	1	0	1	0	0
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)*	0	0	1	1	14	0	23	0	1	0	0	3	0	0	0
<i>Cymbopogon ambiguus</i> ***	0	0	3	1	0	0	0	0	31	0	0	0	1	28	0
<i>Cyperus hesperius</i> ***	0	0	6	3	0	0	0	0	28	0	0	0	6	1	0
<i>Euphorbia careyi</i> ***	0	0	4	5	0	0	4	0	26	0	0	0	4	11	0
<i>Solanum horridum</i> *	0	0	2	0	0	0	3	0	17	0	0	0	1	3	0
<i>Triumfetta propinqua</i> **	0	1	1	2	0	0	0	0	27	0	0	0	0	13	0
<i>Tribulus suberosus</i> *	0	3	0	8	1	1	0	0	22	0	1	0	0	1	0
<i>Acacia ancistrocarpa</i> *	3	3	0	1	0	0	0	0	0	24	13	6	0	2	0
<i>Bonamia erecta</i> ***	2	0	0	0	0	0	0	0	0	41	23	1	0	1	0
<i>Corymbia zygophylla</i> *	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0
<i>Triodia schinzii</i> **	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0
<i>Acacia tumida</i> var. <i>pilbarensis</i> *	0	3	7	0	0	0	0	0	0	6	20	1	6	19	0
<i>Aristida holathera</i> var. <i>holathera</i> **	0	0	0	0	0	0	0	0	0	1	35	0	8	0	0
<i>Chrysopogon fallax</i> *	0	0	0	0	0	0	0	0	0	1	32	11	0	9	0
<i>Eragrostis eriopoda</i> *	0	0	0	0	0	0	0	0	0	10	18	2	0	0	0
<i>Isotropis atropurpurea</i> **	0	0	0	0	0	0	0	0	0	0	48	0	3	0	0
<i>Paraneurachne muelleri</i> **	0	0	0	0	0	0	0	0	0	0	21	8	0	2	0
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)*	0	0	0	0	0	1	0	0	0	6	16	11	0	0	0
<i>Acacia bivenosa</i> **	0	0	0	0	0	0	0	11	0	2	3	46	0	1	0
<i>Codonocarpus cotinifolius</i> **	3	0	0	0	7	0	0	1	0	0	1	51	0	0	0
<i>Heliotropium chrysoarpum</i> *	0	0	0	0	0	0	0	3	0	0	0	33	0	0	0
<i>Acacia maitlandii</i> ***	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0

Taxon	Vegetation Unit														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>Acacia orthocarpa</i> **	8	1	0	0	5	0	4	1	0	0	1	3	33	0	0
<i>Bonamia alatisemina</i> *	0	2	0	0	0	0	0	0	0	7	12	0	16	0	0
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i> *	0	0	0	1	0	0	0	0	0	0	0	0	19	0	0
<i>Fimbristylis dichotoma</i> **	0	0	0	0	0	0	0	1	0	0	0	0	52	0	13
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i> *	0	0	0	0	0	0	0	0	0	0	14	13	23	6	0
<i>Scaevola browniana</i> subsp. <i>browniana</i> ***	1	0	0	0	0	0	0	0	0	0	0	0	44	0	0
<i>Tripogonella loliiformis</i> ***	0	0	0	0	0	0	0	0	0	0	0	0	42	0	0
<i>Abutilon</i> aff. <i>hannii</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0
<i>Acacia coriacea</i> subsp. <i>pendens</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i> ***	0	0	0	0	0	0	0	0	0	2	10	0	0	43	0
<i>Acacia trachycarpa</i> *	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0
<i>Boerhavia schomburgkiana</i> **	0	0	0	0	0	0	0	0	0	0	4	0	0	26	0
<i>Cajanus pubescens</i> ***	0	0	0	0	0	0	1	0	0	0	8	0	0	61	0
<i>Eucalyptus victrix</i> **	0	0	0	0	0	0	0	0	0	0	0	0	0	58	0
<i>Jasminum didymum</i> subsp. <i>lineare</i> *	0	0	0	0	0	0	0	0	6	0	6	2	0	20	0
<i>Melaleuca linophylla</i> **	0	0	0	0	0	0	0	0	0	0	0	0	0	46	0
<i>Phyllanthus maderaspatensis</i> ***	0	0	0	0	0	1	0	0	0	0	1	0	0	66	0
<i>Polymeria ambigua</i> *	0	0	0	0	0	0	0	0	0	0	21	5	0	24	0
<i>Pterocaulon sphacelatum</i> **	0	0	0	0	0	0	0	0	0	0	4	0	6	25	0
<i>Rhynchosia minima</i> *	0	0	0	0	0	0	4	0	3	0	1	1	2	30	0
<i>Stemodia grossa</i> **	0	0	1	0	0	1	0	0	0	0	0	0	1	23	0
<i>Tephrosia rosea</i> var. <i>clementii</i> ***	0	0	0	0	0	0	0	0	0	0	6	0	1	60	0
<i>Themeda triandra</i> **	0	0	0	0	0	0	0	0	0	0	1	0	0	27	0
<i>Acacia synchronica</i> ***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
<i>Maireana</i> sp.***	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
<i>Sida fibulifera</i> *	0	0	0	0	0	0	0	0	0	0	0	3	0	2	33
<i>Triodia longiceps</i> ***	0	0	0	0	0	0	0	0	0	0	0	0	0	1	90

Appendix K: Raw Quadrat Data Recorded within the Study Area

Site Name: GNH16
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 09/05/2013
 GPS Location: GDA94 Zone 50 676993E 7663677N
 Landform Type: Other, Undulating Plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: S
 Soil Type: Sandy Loam
 Soil Colour: Red
 Rock Outcrop: Quartz (other), <2% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Limited Clearing, Track in south east corner of quadrat (other)
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATAMid Stratum 1: *Acacia ancistrocarpa*Lower Stratum 1: *Triodia lanigera***SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2	0.5
<i>Acacia orthocarpa</i>	2	0.2
<i>Acacia stellaticeps</i>	0.6	0.2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.6	0.1
<i>Bonamia erecta</i>	0.3	0.2
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.1	0.1
<i>Cynodon prostratus</i>	0.1	0.1
<i>Eriachne obtusa</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.2	0.1
<i>Goodenia microptera</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.5	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Trianthema triquetrum</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	0.2
<i>Triodia lanigera</i>	0.3	35
<i>Yakirra australiensis</i>	0.1	0.1

PHOTO



Site Name: GNH17
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 09/05/2013
 GPS Location: GDA94 Zone 50 676972E 7663859N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: SE
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm
 CF Types: Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia ancistrocarpa*, *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Triodia epactia*, *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2	20
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	30
<i>Bonamia erecta</i>	0.4	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Chrysopogon fallax</i>	0.6	0.3
<i>Corymbia hamersleyana</i>	6	2
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.6	0.1
<i>Isotropis atropurpurea</i>	0.5	0.1
<i>Paraneurachne muelleri</i>	0.3	0.1
<i>Polygala</i> aff. <i>saccopetala</i>	0.1	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	25
<i>Triodia lanigera</i>	0.4	5

PHOTO



Site Name: GNH18
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 10/05/2013
 GPS Location: GDA94 Zone 50 677002E 7663577N
 Landform Type: Other, Edge of Drainage Line (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: E
 Soil Type: Light Clay
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - G - Good
 Disturbance: Grazing, Exotic Weeds
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana, Eucalyptus victrix*
 Mid Stratum 1: *Acacia trachycarpa*
 Lower Stratum 1: **Cenchrus ciliaris, Dichanthium fecundum*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa x arida</i>	3	0.3
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.5	0.2
<i>Acacia trachycarpa</i>	3	6
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.1
* <i>Aerva javanica</i>	0.6	0.1
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Boerhavia repleta</i>	0.1	0.1
<i>Bonamia erecta</i>	0.3	0.1
<i>Cajanus cinereus</i>	1.2	0.1
* <i>Cenchrus ciliaris</i>	0.6	30
<i>Chrysopogon fallax</i>	0.7	0.2
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus ?incanus</i> subsp. <i>incanus</i>	0.2	0.1
<i>Corymbia hamersleyana</i>	6	1.5
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.5	0.1
<i>Dichanthium fecundum</i>	1	2
<i>Enneapogon caeruleus</i>	0.2	0.1
<i>Eragrostis cumingii</i>	0.2	0.1
<i>Eucalyptus victrix</i>	8	0.5
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.2	0.1
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	0.3	0.1
<i>Goodenia muelleriana</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Heliotropium cunninghamii</i>	0.2	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.2	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.6	0.2
<i>Paspalidium rarum</i>	0.2	0.1
<i>Polymeria ambigua</i>		0.1
<i>Portulaca oleracea</i>	0.1	0.1

<i>Pterocaulon sphacelatum</i>	0.2	0.1
<i>Ptilotus fusiformis</i>	0.3	0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Sida fibulifera</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	1	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.7	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	15
<i>Triumfetta propinqua</i>	0.2	0.1
<i>Waltheria indica</i>	0.4	0.1

PHOTO

Site Name: GNH40
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 09/05/2013
 GPS Location: WGS84 Zone 50 677399E 7661270N
 Landform Type: Plain
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: E
 Soil Type: Loamy sand (other)
 Soil Colour: Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: >5

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia orthocarpa*
 Mid Stratum 1: *Acacia stellaticeps*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa x arida</i>	2	0.1
<i>Acacia arida</i>	1.1	0.1
<i>Acacia orthocarpa</i>	2.2	3
<i>Acacia sphaerostachya</i>	1.1	0.1
<i>Acacia stellaticeps</i>	0.9	1
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bonamia erecta</i>	0.3	0.1
<i>Fimbristylis dichotoma</i>	0.2	0.1
<i>Goodenia microptera</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)		
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.3	0.1
<i>Triodia epactia</i>	0.5	0.5
<i>Triodia lanigera</i>	0.5	80
<i>Zornia albiflora</i>	0.1	0.1

PHOTO



Site Name: GNH41
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 09/05/2013
 GPS Location: WGS84 Zone 50 676906E 7663792N
 Landform Type: Plain
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Loamy sand (other)
 Soil Colour: Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Historical earth works (other)
 Fire: >3

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia ancistrocarpa*, *Acacia orthocarpa*
 Mid Stratum 1: *Acacia stellaticeps*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	1.5	1
<i>Acacia inaequilatera</i>	0.6	0.1
<i>Acacia orthocarpa</i>	1.4	0.5
<i>Acacia sphaerostachya</i>	0.3	0.1
<i>Acacia stellaticeps</i>	0.5	2
<i>Bonamia pilbarensis</i>	0.2	0.1
<i>Codonocarpus cotinifolius</i>	1.2	0.1
<i>Corchorus ?incanus</i> subsp. <i>incanus</i>	0.4	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Portulaca oleracea</i>		0.1
<i>Ptilotus astrolasius</i>	0.3	0.2
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1
<i>Senna symonii</i>	0.3	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Triodia lanigera</i>	0.3	60

PHOTO



Site Name: HER001
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/05/2011
 GPS Location: WGS84 Zone 50 671709E 7660900N
 Landform Type: Plain, Outwash from range (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia inaequilatera*, *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*, *Acacia ancistrocarpa*, *Grevillea pyramidalis* subsp. *leucadendron*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	5
<i>Acacia ancistrocarpa</i>	2	0.5
<i>Acacia inaequilatera</i>	4	1.5
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	3
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.3
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.4	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3.5	0.2
<i>Heliotropium cunninghamii</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.1	0.1
<i>Ptilotus nobilis</i>	0.1	0.1
<i>Senna notabilis</i>	0.3	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	50

PHOTO



Site Name: HER002
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 17/05/2011
 GPS Location: GDA94 Zone 50 670934E 7660217N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: W
 Soil Type: Loam (other)
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia tumida* var. *pilbarensis*, *Cajanus cinereus*
 Mid Stratum 2: *Cajanus* ?*cinereus* 4m 10%
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	2
* <i>Aerva javanica</i>	0.2	0.1
<i>Amaranthus undulatus</i>	0.4	0.1
<i>Ammannia baccifera</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cajanus cinereus</i>	2	10
<i>Cleome viscosa</i>	0.1	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.5	0.3
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Corymbia hamersleyana</i>	10	1
<i>Cymbopogon ambiguus</i>	0.7	0.1
<i>Enneapogon caeruleus</i>	0.3	0.1
<i>Eragrostis cumingii</i>	0.4	0.1
<i>Eragrostis tenellula</i>	0.4	0.1
<i>Euphorbia trigonosperma</i>	0.2	0.1
<i>Gossypium australe</i>	0.6	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.1	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	0.5	0.1
<i>Notoleptopus decaisnei</i>	0.2	0.1
<i>Operculina aequisejala</i>	0.1	0.1
<i>Paspalidium clementii</i>	0.2	0.1
<i>Paspalidium tabulatum</i>	0.3	0.1
<i>Phyllanthus maderaspatensis</i>	0.4	0.1
<i>Polymeria ambigua</i>	0.1	0.1
<i>Pterocaulon sphacelatum</i>	0.1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	0.6	0.3
<i>Solanum phlomoides</i>	0.3	0.1
<i>Striga curviflora</i>	0.1	0.1
<i>Tephrosia virens</i>	0.6	0.1
<i>Themeda triandra</i>	1	5

<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.4	0.1
<i>Triodia epactia</i>	0.4	10
<i>Triumfetta propinqua</i>	0.3	0.1

PHOTO

Site Name: HER003
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/05/2011
 GPS Location: GDA94 Zone 50 670795E 7659499N
 Landform Type: Plain
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: W
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 3+ years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	0.1
<i>Acacia inaequilatera</i>	3	0.4
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Cyperus hesperius</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.3	0.1
<i>Fimbristylis simulans</i>	0.1	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Triodia epactia</i>	0.3	60

PHOTO



Site Name: HER004
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 12/05/2011
 GPS Location: GDA94 Zone 50 671616E 7658947N
 Landform Type: Crest
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: W
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 3+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Terminalia supranitifolia*
 Lower Stratum 1: *Indigofera monophylla*, *Triumfetta maconochieana*
 Lower Stratum 2: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.4	0.1
<i>Amaranthus undulatus</i>	0.3	0.1
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.5	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	0.6	0.1
<i>Cymbopogon ambiguus</i>	0.5	0.2
<i>Cyperus hesperius</i>	0.1	0.1
<i>Dampiera candidans</i>	0.5	0.1
<i>Eriachne mucronata</i>	0.3	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.3	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.5	0.1
<i>Indigofera monophylla</i>	0.5	1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium tabulatum</i>	0.2	0.1
<i>Phyllanthus maderaspatensis</i>	0.4	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.2	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Ptilotus incanus</i>	0.2	0.1
<i>Senna symonii</i>	0.3	0.1
<i>Solanum horridum</i>	0.3	0.1
<i>Streptoglossa decurrens</i>	0.1	0.1
<i>Striga curviflora</i>	0.1	0.1
<i>Terminalia supranitifolia</i> (P3)	2	0.5
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.3	0.1
<i>Tribulus suberosus</i>	0.3	0.1
<i>Trichosanthes cucumerina</i> var. <i>cucumerina</i>	0.1	0.1

<i>Triodia epactia</i>	0.5	3
<i>Triodia wiseana</i>	0.3	20
<i>Triumfetta maconochieana</i>	1	1
<i>Triumfetta propinqua</i>	0.3	0.1

PHOTO

Site Name: HER005
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 11/06/2011
 GPS Location: WGS84 Zone 50 672155E 7659177N
 Landform Type: Mid Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: SE
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Ptilotus auriculifolius*
 Lower Stratum 2: *Triodia brizoides*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.6	0.5
<i>Aristida holathera</i> var. <i>holathera</i>	0.6	0.1
<i>Boerhavia gardneri</i>		0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.7	0.1
<i>Cymbopogon ambiguus</i>	0.3	0.1
<i>Dampiera candidans</i>	0.5	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.2	0.1
<i>Eriachne ciliata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.4	0.1
<i>Fimbristylis elegans</i>	0.2	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Gossypium australe</i>	1.2	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	0.8	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.5	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.6	0.4
<i>Ptilotus calostachyus</i>	1	0.1
<i>Senna notabilis</i>	0.3	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Tephrosia virens</i>	1.3	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Tribulus suberosus</i>	1	0.1

<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.5	20
<i>Triodia wiseana</i>	0.1	0.1
<i>Triumfetta propinqua</i>	0.3	0.1
<i>Yakirra australiensis</i>	0.1	0.1

PHOTO

Site Name: HER006
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 11/06/2011
 GPS Location: WGS84 Zone 50 672286E 7659675N
 Landform Type: Drainage Line
 Slope Class: Gently Inclined (3 degrees)
 Aspect: NNW
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, River stones, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus victrix*
 Mid Stratum 1: *Acacia acradenia*, *Acacia pyrifolia* var. *pyrifolia*, *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Cyperus vaginatus*
 Lower Stratum 2: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.8	0.3
<i>Acacia coriacea</i> subsp. <i>pendens</i>	2.5	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2.5	0.5
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	0.2
* <i>Aerva javanica</i>	1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cajanus cinereus</i>	1	0.1
<i>Cassytha filiformis</i>		0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	0.4	0.1
<i>Cucumis variabilis</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	0.6	0.2
<i>Cyperus vaginatus</i>	1.1	10
<i>Eriachne benthamii</i>	0.3	0.1
<i>Eucalyptus victrix</i>	9	6
* <i>Flaveria trinervia</i>	0.3	0.1
<i>Gossypium australe</i>	1.6	0.1
<i>Indigofera monophylla</i>	0.1	0.1
<i>Indigofera trita</i>	0.1	0.1
<i>Melaleuca linophylla</i>	2	0.1
<i>Operculina aequisejala</i>		0.1
<i>Phyllanthus maderaspatensis</i>	0.3	0.1
<i>Pluchea ferdinandi-muelleri</i>	0.6	0.1
<i>Rhynchosia minima</i>	0.1	0.1
<i>Sesbania cannabina</i>	0.4	0.2
<i>Stemodia grossa</i>	0.5	0.1
<i>Swainsona formosa</i>	0.4	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.3	0.1
<i>Triodia epactia</i>	0.7	3
<i>Triodia wiseana</i>	0.5	0.1

PHOTO



Site Name: HER007
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 12/06/2011
 GPS Location: WGS84 Zone 50 672241E 7660146N
 Landform Type: Simple Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: E
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: 2 test pits (other)
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia inaequilatera*
 Mid Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.8	8
<i>Acacia inaequilatera</i>	3.5	0.2
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Cucumis variabilis</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.6	0.1
<i>Fimbristylis simulans</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.2
<i>Indigofera monophylla</i>	0.5	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Tephrosia clementii</i>	0.2	0.1
<i>Triodia epactia</i>	0.6	75
<i>Triumfetta propinqua</i>	0.3	0.1

PHOTO



Site Name: HER008
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 12/05/2011
 GPS Location: GDA94 Zone 50 671975E 7660345N
 Landform Type: Ridge
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: E
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Mine exploration nearby (other)
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*, *Terminalia supranitifolia*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	1.5
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Cleome viscosa</i>	0.4	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.7	0.1
<i>Cucumis variabilis</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	0.4	0.1
<i>Cyperus hesperius</i>	0.1	0.1
<i>Dampiera candicans</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium tabulatum</i>	0.3	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus incanus</i>	0.2	0.1
<i>Solanum horridum</i>	0.2	0.1
<i>Terminalia supranitifolia</i> (P3)	1.5	0.5
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.2	0.1
<i>Triodia epactia</i>	0.5	30
<i>Triodia wiseana</i>	0.4	30
<i>Triumfetta maconochieana</i>	0.3	0.1
<i>Triumfetta propinqua</i>	0.2	0.1

PHOTO



Site Name: HER009
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 12/06/2011
 GPS Location: WGS84 Zone 50 672340E 7660420N
 Landform Type: Mid Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: SW
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.8	0.2
<i>Acacia inaequilatera</i>	2.5	0.1
<i>Amaranthus undulatus</i>	0.6	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	1	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Dampiera candidans</i>	0.4	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1
<i>Indigofera monophylla</i>	0.5	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus fusiformis</i>	0.3	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Tribulus suberosus</i>	0.5	0.1
<i>Triodia epactia</i>	0.5	90
<i>Triumfetta maconochieana</i>	0.1	0.1
<i>Triumfetta propinqua</i>	0.1	0.1

PHOTO



Site Name: HER010
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 12/06/2011
 GPS Location: WGS84 Zone 50 672462E 7660582N
 Landform Type: Mid Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: N
 Soil Type: Sand
 Soil Colour: Brown
 Rock Outcrop: Granite, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 3 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Corchorus parviflorus*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.5	0.1
<i>Acacia ancistrocarpa</i>	1.3	0.1
<i>Acacia inaequilatera</i>	0.3	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.5	0.2
<i>Dampiera candidans</i>	0.4	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.8	0.1
<i>Hibiscus coatesii</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	0.7	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Solanum phlomoides</i>	0.5	0.1
<i>Tribulus suberosus</i>	0.5	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	30
<i>Triodia wiseana</i>	0.4	3

PHOTO



Site Name: HER011
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 12/06/2011
 GPS Location: WGS84 Zone 50 672932E 7660870N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia ancistrocarpa*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2.2	25
<i>Acacia inaequilatera</i>	0.5	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	0.2
<i>Aristida holathera</i> var. <i>holathera</i>	0.4	0.1
<i>Bonamia alatisemina</i>		0.1
<i>Bonamia erecta</i>	0.6	0.2
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cassytha filiformis</i>	0.1	0.1
<i>Chrysopogon fallax</i>	0.7	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.2	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	1.8	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Corymbia hamersleyana</i>	5	1
<i>Cucumis variabilis</i>		0.1
<i>Cullen martinii</i>	0.2	0.1
<i>Dampiera candidans</i>	0.2	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eragrostis cumingii</i>	0.2	0.1
<i>Eragrostis eriopoda</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.5	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.3	0.1
<i>Euphorbia trigonosperma</i>	0.4	0.1
<i>Fimbristylis simulans</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
? <i>Goodenia stobbsiana</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	0.1
<i>Haloragis gossei</i> var. <i>gossei</i>	0.3	0.1
<i>Heliotropium pachyphyllum</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Isotropis atropurpurea</i>	0.4	0.1

<i>Paraneurachne muelleri</i>	0.3	0.2
<i>Paspalidium clementii</i>	0.2	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
? <i>Polymeria ambigua</i>		0.1
<i>Pterocaulon sphacelatum</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus axillaris</i>		0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Ptilotus fusiformis</i>	0.4	0.1
<i>Senna notabilis</i>	0.3	0.1
<i>Senna symonii</i>	0.1	0.1
<i>Sida arenicola</i>	1.7	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.7	0.1
<i>Solanum diversiflorum</i>	0.4	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1
<i>Tinospora smilacina</i>		0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.2	0.1
<i>Trianthema pilosum</i>	0.2	0.1
<i>Tribulus hirsutus</i>		0.1
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.5	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	0.3
<i>Triodia lanigera</i>	0.6	60
<i>Triumfetta johnstonii</i>	0.3	0.1
<i>Triumfetta propinqua</i>	0.2	0.1
<i>Yakirra australiensis</i>	0.2	0.1

PHOTO



Site Name: HER012
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 12/06/2011
 GPS Location: WGS84 Zone 50 673283E 7660715N
 Landform Type: Simple Slope
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: SE
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 2-3 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Goodenia stobbsiana*
 Lower Stratum 1: *Triodia epactia*, *Triodia lanigera*
 Lower Stratum 2: *Eriachne pulchella* subsp. *dominii*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	1.7	0.1
<i>Acacia stellaticeps</i>	0.4	0.1
<i>Bonamia erecta</i>	0.3	0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Dampiera candidans</i>	0.3	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.2
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.5	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.6	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Polycarpaea corymbosa</i>	0.2	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	1.2	0.1
<i>Tephrosia clementii</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia epactia</i>	0.3	1
<i>Triodia lanigera</i>	0.2	20

PHOTO



Site Name: HER013
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 11/06/2011
 GPS Location: WGS84 Zone 50 673272E 7660020N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: E
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: 10-20%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - G - Good
 Disturbance: Grazing, Cattle (other)
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia tumida* var. *pilbarensis*
 Mid Stratum 1: *Acacia pyrifolia* var. *pyrifolia*
 Lower Stratum 1: *Triodia epactia*
 Lower Stratum 2: **Cenchrus ciliaris*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	3	3
<i>Acacia tumida</i> var. <i>pilbarensis</i>	5	7
* <i>Aerva javanica</i>	0.2	0.1
<i>Amaranthus undulatus</i>	0.2	0.1
<i>Atalaya hemiglauca</i>	4	0.1
<i>Boerhavia coccinea</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cajanus cinereus</i>	0.2	0.1
* <i>Cenchrus ciliaris</i>	0.6	4
<i>Cleome viscosa</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Corchorus tridens</i>	0.1	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.5	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Enneapogon lindleyanus</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>		0.1
<i>Euphorbia careyi</i>		0.1
<i>Euphorbia trigonosperma</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Gossypium australe</i>	1.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.7	0.1
<i>Hybanthus aurantiacus</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Ipomoea muelleri</i>		0.1
<i>Melhania oblongifolia</i>	0.2	0.1
<i>Nicotiana ?rosulata</i>	0.3	0.1
<i>Notoleptopus decaisnei</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1

<i>Phyllanthus maderaspatensis</i>	0.5	0.1
<i>Polycarpaea corymbosa</i>	0.2	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.2	0.1
<i>Portulaca oleracea</i>		0.1
<i>Pterocaulon sphacelatum</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus auriculifolius</i>	0.4	0.1
<i>Ptilotus fusiformis</i>	0.3	0.1
<i>Salsola australis</i>	0.5	0.1
<i>Scaevola spinescens</i>	1.1	0.1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i> x <i>hemslsii</i>	1.2	0.1
<i>Sesbania cannabina</i>	0.5	0.1
<i>Solanum diversiflorum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Sporobolus australasicus</i>	0.2	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.6	0.1
<i>Trianthema pilosum</i>	0.1	0.1
<i>Trianthema triquetrum</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.4	0.1
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.2	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.6	3
<i>Triumfetta propinqua</i>	0.1	0.1

PHOTO

Site Name: HER014
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 11/06/2011
 GPS Location: WGS84 Zone 50 673056E 7659923N
 Landform Type: Simple Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: E
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia inaequilatera*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia brizoides*, *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	0.8
<i>Acacia inaequilatera</i>	3.5	0.4
<i>Bonamia pilbarensis</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.6	0.1
<i>Dampiera candidans</i>	0.7	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Tephrosia clementii</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	20	0.3
<i>Triodia epactia</i>	0.4	10

PHOTO



Site Name: HER015
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 11/06/2011
 GPS Location: WGS84 Zone 50 672845E 7660022N
 Landform Type: Lower Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: N
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: Decayed Granite, Quartz, Calcrete (other), 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia inaequilatera*
 Lower Stratum 1: *Triodia scintillans*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	0.1
<i>Acacia inaequilatera</i>	3	0.2
<i>Boerhavia gardneri</i>		0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Dysphania plantaginella</i>	0.1	0.1
<i>Enneapogon lindleyanus</i>	0.3	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Heliotropium cunninghamii</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Triodia scintillans</i>	0.3	95
<i>Triodia wiseana</i>	0.4	0.1

PHOTO



Site Name: HER016
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 11/06/2011
 GPS Location: WGS84 Zone 50 672745E 7659704N
 Landform Type: Upper Slope
 Slope Class: Precipitous (60 degrees)
 Aspect: S
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Grevillea pyramidalis* subsp. *leucadendron*
 Lower Stratum 1: *Triodia wiseana*
 Lower Stratum 2: *Gomphrena cunninghamii*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	0.5	0.1
<i>Amaranthus undulatus</i>	0.6	0.1
<i>Aristida burbridgeae</i>	0.5	0.1
<i>Boerhavia gardneri</i>		0.1
<i>Bulbostylis barbata</i>	0.2	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Cleome viscosa</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	1	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.5
<i>Gossypium australe</i>	1.1	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	3	0.4
<i>Indigofera monophylla</i>	0.6	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1.2	0.1
<i>Nicotiana benthamiana</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Peripleura virgata</i>	0.3	0.1
<i>Polycarpaea longiflora</i>	0.2	0.1
<i>Ptilotus auriculifolius</i>	0.4	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.6	0.1
<i>Terminalia supranitifolia</i> (P3)	2	0.2
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Triodia wiseana</i>	0.7	30
<i>Triumfetta propinqua</i>	0.2	0.1

PHOTO



Site Name: HER017
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 11/06/2011
 GPS Location: WGS84 Zone 50 672573E 7659518N
 Landform Type: Mid Slope
 Slope Class: Steep (23 degrees)
 Aspect: N
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Acacia inaequilatera*
 Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	0.5
<i>Acacia ancistrocarpa</i>	1.6	0.1
<i>Acacia inaequilatera</i>	2	0.1
<i>Boerhavia gardneri</i>		0.2
<i>Bonamia pilbarensis</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.4	0.1
<i>Indigofera monophylla</i>	0.5	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Triodia epactia</i>	0.7	0.2
<i>Triodia wiseana</i>	0.7	25

PHOTO



Site Name: HER018
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 11/06/2011
 GPS Location: WGS84 Zone 50 673277E 7659461N
 Landform Type: Upper Slope
 Slope Class: Precipitous (60 degrees)
 Aspect: S
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Hakea lorea* subsp. *lorea*
 Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.3	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.7	0.1
<i>Amaranthus undulatus</i>	0.6	0.1
<i>Boerhavia gardneri</i>		0.1
<i>Bulbostylis barbata</i>	0.2	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Cleome viscosa</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.8	0.1
<i>Enneapogon lindleyanus</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.4	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Gossypium australe</i>	1	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.8	0.1
<i>Hibiscus coatesii</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.5	0.1
<i>Indigofera trita</i>	0.2	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1.5	0.1
<i>Nicotiana benthamiana</i>	0.3	0.1
<i>Notoleptopus decaisnei</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium tabulatum</i>	0.2	0.1
<i>Phyllanthus maderaspatensis</i>	0.2	0.1
<i>Ptilotus auriculifolius</i>	0.5	0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	0.5	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Stemodia grossa</i>	0.3	0.1
<i>Terminalia supranitifolia</i> (P3)		
<i>Tinospora smilacina</i>		0.1
<i>Tribulus suberosus</i>	0.6	0.1
<i>Triodia wiseana</i>	0.7	25

<i>Triumfetta propinqua</i>	0.3	0.1
<i>Vigna triodiophila</i> (P3)		0.1

PHOTO

Site Name: HER019
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 10/06/2011
 GPS Location: WGS84 Zone 50 673765E 7660486N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NE
 Soil Type: Sand
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 0%
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 3+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia tumida* var. *pilbarensis*
 Mid Stratum 2: *Corchorus parviflorus*
 Lower Stratum 1: *Bonamia erecta*
 Lower Stratum 2: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	0.7	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	10
<i>Amaranthus undulatus</i>	0.9	0.1
<i>Aristida holathera</i> var. <i>holathera</i>	0.5	0.1
<i>Boerhavia coccinea</i>		0.1
<i>Bonamia erecta</i>	0.6	1
<i>Chrysopogon fallax</i>	1	0.2
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.4	0.1
<i>Cleome viscosa</i>	0.6	0.1
<i>Corchorus parviflorus</i>	1.2	2
<i>Corymbia hamersleyana</i>	4	0.4
<i>Eragrostis eriopoda</i>	0.3	0.1
<i>Euphorbia clementii</i> (P3)	0.3	0.1
<i>Euphorbia trigonosperma</i>	0.4	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Gossypium australe</i>	1.2	0.1
<i>Heliotropium skeleton</i>	0.5	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.5	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.6	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1.2	0.1
<i>Paraneurachne muelleri</i>	0.5	0.2
<i>Ptilotus astrolasius</i>	0.6	0.1
<i>Ptilotus axillaris</i>		0.1
<i>Ptilotus fusiformis</i>	0.4	0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Senna symonii</i>	0.2	0.1
<i>Sida arenicola</i>	2	0.5
<i>Solanum phlomoides</i>	0.3	0.1
<i>Sporobolus australasicus</i>	0.2	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1
<i>Tinospora smilacina</i>		0.1
<i>Trianthema pilosum</i>	0.3	0.1

<i>Triodia epactia</i>	0.5	1
<i>Yakirra australiensis</i>	0.2	0.1

PHOTO

Site Name: HERO20
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 12/06/2011
 GPS Location: WGS84 Zone 50 674153E 7660278N
 Landform Type: Drainage Line
 Slope Class: Gently Inclined (3 degrees)
 Aspect: N
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: Calcrete (other), 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Riverstones (other)
 Vegetation Condition: Northern Vegetation Condition - G - Good
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia tumida* var. *pilbarensis*
 Mid Stratum 2: *Acacia pyrifolia* var. *pyrifolia*, *Acacia trachycarpa*
 Lower Stratum 1: **Cenchrus ciliaris*
 Lower Stratum 2: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	0.1
<i>Acacia ancistrocarpa</i>	1.3	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2.5	2
<i>Acacia trachycarpa</i>	3	1
<i>Acacia trachycarpa</i> x <i>tumida</i> var. <i>pilbarensis</i>	4	0.2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	15
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Cajanus cinereus</i>	0.5	0.1
* <i>Cenchrus ciliaris</i>	0.7	8
<i>Chrysopogon fallax</i>	1	0.1
<i>Cleome viscosa</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Corymbia hamersleyana</i>	5	2
<i>Cymbopogon ambiguus</i>	0.7	0.1
<i>Eriachne benthamii</i>	0.5	0.1
<i>Eucalyptus victrix</i>	4	0.1
<i>Euphorbia clementii</i> (P3)	0.3	
<i>Gossypium australe</i>	0.4	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera monophylla</i>	1	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1.2	0.1
<i>Melaleuca linophylla</i>	1.3	0.1
<i>Notoleptopus decaisnei</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paraneurachne muelleri</i>	0.6	0.2
<i>Phyllanthus maderaspatensis</i>	0.3	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Rhynchosia minima</i>	0.1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.8	0.1
<i>Sida clementii</i>	0.9	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	1	0.1

<i>Themeda triandra</i>	0.7	0.1
<i>Triodia epactia</i>	0.9	12
<i>Triodia wiseana</i>	0.2	0.1
<i>Triumfetta propinqua</i>	0.7	0.1
<i>Waltheria indica</i>	0.4	0.1

PHOTO

Site Name: HER021
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 14/06/2011
 GPS Location: WGS84 Zone 50 674798E 7660480N
 Landform Type: Drainage Line
 Slope Class: Gently Inclined (3 degrees)
 Aspect: NE
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Granite, Stone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia tumida* var. *pilbarensis*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. Pilbara (W.R. Barker 2025)	0.9	0.1
<i>Acacia acradenia</i>	1.8	15
<i>Acacia ancistrocarpa</i>	2.5	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	30
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Bonamia erecta</i>	0.3	0.1
<i>Cassytha filiformis</i>	0.1	0.1
<i>Chrysopogon fallax</i>	1	0.2
<i>Cleome viscosa</i>	0.6	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Corymbia hamersleyana</i>	4	0.5
<i>Cucumis variabilis</i>	0.1	0.1
<i>Dampiera candicans</i>	0.2	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.4	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.3	0.1
<i>Euphorbia trigonosperma</i>	0.4	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Goodenia forrestii</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.2
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.5	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1.5	0.1
<i>Polymeria ambigua</i>	0.1	0.1
? <i>Polymeria ambigua</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.2	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus fusiformis</i>	0.4	0.1
<i>Rhynchosia minima</i>	0.1	0.1

<i>Senna notabilis</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tinospora smilacina</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	30
<i>Triumfetta johnstonii</i>	0.3	0.1
<i>Yakirra australiensis</i>	0.1	0.1

PHOTO

Site Name: HER022
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 14/06/2011
 GPS Location: WGS84 Zone 50 674964E 7660409N
 Landform Type: Simple Slope
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*, *Triodia lanigera*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.7	2
<i>Acacia inaequilatera</i>	1.5	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.8	0.2
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Ptilotus fusiformis</i>	0.4	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	0.2
<i>Triodia lanigera</i>	0.4	70
<i>Triodia wiseana</i>	0.6	10

PHOTO



Site Name: HER023
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 11/05/2011
 GPS Location: GDA94 Zone 50 675364E 7660635N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: W
 Soil Type: Sandy Loam
 Soil Colour: Red
 Rock Outcrop: Calcrete (other), <2% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - G - Good
 Disturbance: Exotic Weeds
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus victrix*
 Mid Stratum 1: *Acacia tumida* var. *pilbarensis*
 Mid Stratum 2: *Acacia pyrifolia* var. *pyrifolia*
 Lower Stratum 1: **Cenchrus ciliaris*, *Cymbopogon ambiguus*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	3	1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2	3
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	3
* <i>Aerva javanica</i>	0.5	0.1
<i>Boerhavia coccinea</i>		0.1
<i>Cajanus cinereus</i>	0.6	0.1
* <i>Cenchrus ciliaris</i>	0.3	1
<i>Cleome viscosa</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Corchorus tridens</i>		0.1
<i>Cymbopogon ambiguus</i>	1	1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.2	0.1
<i>Eriachne obtusa</i>	0.4	0.1
<i>Eriachne tenuiculmis</i>	0.4	0.1
<i>Eucalyptus victrix</i>	8	5
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.2	0.1
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	0.1	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera monophylla</i>	1	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>		0.1
<i>Notoleptopus decaisnei</i>	0.2	0.1
<i>Paraneurachne muelleri</i>	0.4	0.1
<i>Phyllanthus maderaspatensis</i>	0.2	0.1
<i>Ptilotus axillaris</i>		0.1
<i>Rhynchosia minima</i>		0.1
<i>Salsola australis</i>	0.3	0.1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	2	0.1
<i>Sida clementii</i>	0.5	0.1
<i>Sida fibulifera</i>	0.2	0.1

<i>Solanum phlomoides</i>	0.3	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.3	0.1
<i>Triodia epactia</i>	0.5	5
<i>Triumfetta clementii</i>	0.1	0.1

PHOTO

Site Name: HERO24
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 07/06/2011
 GPS Location: WGS84 Zone 50 674998E 7659865N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NW
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Cows (other)

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Upper Stratum 2: *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Isotropis atropurpurea*
 Lower Stratum 2: **Cenchrus ciliaris*, *Corchorus parviflorus*, *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	0.2	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.4	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4.5	0.2
* <i>Aerva javanica</i>	0.7	0.1
<i>Amaranthus undulatus</i>	0.2	0.1
<i>Aristida holathera</i> var. <i>holathera</i>	0.8	0.1
<i>Boerhavia coccinea</i>		0.1
<i>Bonamia alatisemina</i>		0.1
<i>Bonamia pannosa</i>		0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Bulbostylis barbata</i>	0.2	0.1
* <i>Cenchrus ciliaris</i>	1	0.2
<i>Chrysopogon fallax</i>	1.2	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.4	0.1
<i>Cleome viscosa</i>	1	0.1
<i>Codonocarpus cotinifolius</i>	0.5	0.1
<i>Corchorus parviflorus</i>	1	3
<i>Corymbia hamersleyana</i>	5	0.5
<i>Dampiera candidans</i>	0.5	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.4	0.2
* <i>Eragrostis minor</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.3	0.1
<i>Eriachne tenuiculmis</i>	0.5	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>		0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Euphorbia clementii</i> (P3)	0.3	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	1.2	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Goodenia microptera</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.6	0.1
<i>Gossypium australe</i>	0.8	0.1

<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1
<i>Heliotropium cunninghamii</i>	0.1	0.1
<i>Heliotropium skeleton</i>	0.5	0.1
<i>Hibiscus leptocladus</i>	0.7	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.5	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.5	1
<i>Isotropis atropurpurea</i>	1	1
<i>Notoleptopus decaisnei</i>	0.5	0.1
<i>Oldenlandia crouchiana</i>	0.2	0.1
<i>Polycarpaea corymbosa</i>	0.2	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.2	0.1
<i>Polymeria ambigua</i>		0.1
<i>Ptilotus astrolasius</i>	0.6	0.2
<i>Ptilotus auriculifolius</i>	0.6	0.1
<i>Ptilotus axillaris</i>		0.2
<i>Ptilotus calostachyus</i>	1.3	0.3
<i>Ptilotus fusiformis</i>	0.4	0.1
<i>Senna notabilis</i>	0.4	0.1
<i>Solanum diversiflorum</i>	0.5	0.1
<i>Solanum phlomoides</i>	0.8	0.2
<i>Sporobolus australasicus</i>	0.4	0.1
<i>Swainsona formosa</i>	0.5	0.1
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Tephrosia clementii</i>	0.1	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.9	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1
<i>Trianthema pilosum</i>		0.1
<i>Trianthema triquetrum</i>	0.1	0.1
<i>Tribulus hirsutus</i>		0.1
<i>Tribulus suberosus</i>	1.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	0.3
<i>Triodia lanigera</i>	0.4	0.1
<i>Triumfetta johnstonii</i>	0.8	0.1
<i>Velleia connata</i>	1	0.1
<i>Yakirra australiensis</i>	0.1	0.1

PHOTO



Site Name: HERO25
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 08/06/2011
 GPS Location: WGS84 Zone 50 674777E 7659649N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - G - Good
 Disturbance: Grazing, Cattle tracks (other)
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus victrix*
 Mid Stratum 1: *Acacia pyrifolia* var. *pyrifolia*, *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: **Cenchrus ciliaris*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> aff. <i>hannii</i>	0.1	0.1
<i>Acacia acradenia</i>	0.9	0.1
<i>Acacia ancistrocarpa</i>	2.5	0.1
<i>Acacia coriacea</i> subsp. <i>pendens</i>	1.5	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2	1
<i>Acacia trachycarpa</i>	2.5	0.1
<i>Acacia trachycarpa</i> x <i>tumida</i> var. <i>pilbarensis</i>	3	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3.5	0.2
* <i>Aerva javanica</i>	0.1	0.1
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Boerhavia coccinea</i>		0.1
<i>Cajanus cinereus</i>	1	0.1
* <i>Cenchrus ciliaris</i>	0.7	90
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	1	0.1
<i>Corchorus tridens</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	1	0.2
<i>Cyperus vaginatus</i>	0.9	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne tenuiculmis</i>	0.4	0.1
<i>Eucalyptus victrix</i>	9	5
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.3	0.1
<i>Goodenia forrestii</i>	0.3	0.1
<i>Indigofera colutea</i>	0.2	0.1
<i>Indigofera monophylla</i>	1	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1	0.1
<i>Melaleuca linophylla</i>	1.4	0.4
<i>Notoleptopus decaisnei</i>	0.2	0.1
<i>Phyllanthus maderaspatensis</i>	0.1	0.1
<i>Polymeria ambigua</i>		0.1
<i>Portulaca oleracea</i>		0.1

<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.1
<i>Salsola australis</i>	0.3	0.1
<i>Solanum diversiflorum</i>	0.1	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Sporobolus australasicus</i>	0.2	0.1
<i>Stemodia grossa</i>	0.6	0.4
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.6	0.1
<i>Trianthema triquetrum</i>	0.1	0.1
<i>Triodia epactia</i>	0.6	0.2
<i>Triodia longiceps</i>	0.5	0.1

PHOTO

Site Name: HER026
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 08/06/2011
 GPS Location: WGS84 Zone 50 674623E 7659273N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Calcrete (other), <2% bedrock exposed
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - G - Good
 Disturbance: Cattle tracks (other)
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus victrix*
 Upper Stratum 2: *Corymbia hamersleyana*
 Mid Stratum 1: *Melaleuca linophylla*
 Lower Stratum 1: *Cyperus vaginatus*, *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia colei</i> var. <i>colei</i>	2	0.1
<i>Acacia coriacea</i> subsp. <i>pendens</i>	1.6	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.7	0.1
<i>Acacia trachycarpa</i>	2	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.1
<i>Ammannia baccifera</i>	0.1	0.1
<i>Cajanus cinereus</i>	0.2	0.1
* <i>Cenchrus ciliaris</i>	0.6	2
<i>Chrysopogon fallax</i>	1.2	0.1
<i>Cleome viscosa</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.7	0.1
<i>Corymbia hamersleyana</i>	5	1
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	0.4	0.1
<i>Cymbopogon ambiguus</i>	0.7	0.1
<i>Cyperus vaginatus</i>	1	2
<i>Eragrostis tenellula</i>	0.1	0.1
<i>Eucalyptus victrix</i>	10	5
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1	0.1
<i>Melaleuca linophylla</i>	4	3
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Phyllanthus maderaspatensis</i>	0.4	0.1
<i>Pluchea rubelliflora</i>	0.1	0.1
<i>Pluchea tetranthera</i>	0.4	0.1
<i>Rhynchosia minima</i>		0.1
<i>Salsola australis</i>	0.6	0.1
? <i>Schenkia australis</i>	0.1	0.1
<i>Sesbania cannabina</i>	0.6	0.1
<i>Stemodia grossa</i>	0.4	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.9	0.1

<i>Triodia epactia</i>	0.6	40
------------------------	-----	----

PHOTO



Site Name: HER027
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 08/06/2011
 GPS Location: WGS84 Zone 50 674416E 7658984N
 Landform Type: Simple Slope, Drainage line (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NW
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - G - Good
 Disturbance: Borrow pit (other)
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus victrix*
 Mid Stratum 1: *Acacia pyrifolia* var. *pyrifolia*, *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: **Cenchrus ciliaris*, *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia coleii</i> var. <i>coleii</i>	3	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2.2	2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	0.5
* <i>Aerva javanica</i>	0.6	0.1
<i>Boerhavia burbridgeana</i>		0.1
<i>Cajanus cinereus</i>	1.7	0.1
* <i>Cenchrus ciliaris</i>	0.9	30
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	1.2	0.1
<i>Corymbia hamersleyana</i>	4	0.3
<i>Cymbopogon ambiguus</i>	1	0.1
* <i>Cynodon dactylon</i>	0.2	0.1
<i>Cyperus vaginatus</i>	1	0.1
<i>Dactyloctenium radulans</i>	0.1	0.1
<i>Eragrostis tenellula</i>	0.2	0.1
<i>Eucalyptus victrix</i>	6	1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Melaleuca glomerata</i>	4	0.2
<i>Melaleuca linophylla</i>	2	0.2
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Phyllanthus maderaspatensis</i>	0.5	0.1
<i>Ptilotus auriculifolius</i>	0.4	0.1
<i>Ptilotus incanus</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.1
<i>Salsola australis</i>	0.5	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Sesbania cannabina</i>	0.4	0.1
<i>Sida clementii</i>	0.5	0.1
<i>Sida fibulifera</i>		0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Sporobolus australasicus</i>	0.1	0.1

<i>Stemodia grossa</i>	0.5	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.5	0.1
<i>Trianthema triquetrum</i>	0.1	0.1
<i>Triodia epactia</i>	0.6	0.5
<i>Triodia longiceps</i>	0.5	0.1

PHOTO

Site Name: HERO28
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 08/06/2011
 GPS Location: WGS84 Zone 50 674145E 7658899N
 Landform Type: Upper Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: ESE
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: Granite, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

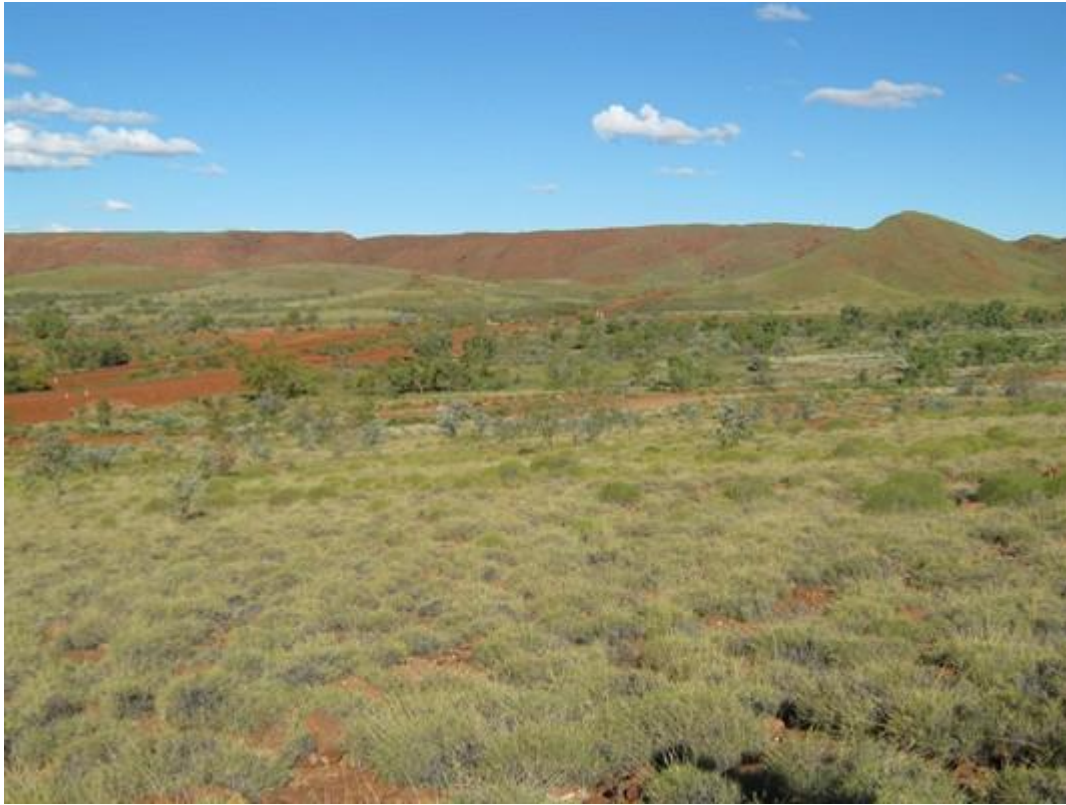
DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Triodia scintillans*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	1.8	0.1
<i>Acacia orthocarpa</i>	4	0.1
<i>Boerhavia gardneri</i>		0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Dampiera candidans</i>	0.4	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Triodia scintillans</i>	0.3	80
<i>Triodia wiseana</i>	0.6	2

PHOTO



Site Name: HERO29
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 08/06/2011
 GPS Location: WGS84 Zone 50 674099E 7659375N
 Landform Type: Simple Slope
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Calcrete (other), 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia chichesterensis*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	4
<i>Acacia inaequilatera</i>	0.6	0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Cassytha capillaris</i>		0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Corymbia hamersleyana</i>	4	1
<i>Dysphania plantaginella</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.4	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.2
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.7	0.1
<i>Haloragis gossei</i> var. <i>gossei</i>	0.1	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Phyllanthus maderaspatensis</i>	0.3	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Sporobolus australasicus</i>	0.2	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	40
<i>Triodia wiseana</i>	0.5	3

PHOTO



Site Name: HER030
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 10/06/2011
 GPS Location: WGS84 Zone 50 673847E 7659558N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NNE
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Cattle tracks (other)
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia pyrifolia* var. *pyrifolia*, *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Chrysopogon fallax*
 Lower Stratum 2: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.3	0.1
<i>Acacia ancistrocarpa</i>	1.4	0.1
<i>Acacia inaequilatera</i>	1.4	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2.5	2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	0.5
* <i>Aerva javanica</i>	0.6	0.1
<i>Amaranthus undulatus</i>	0.3	0.1
<i>Boerhavia burbidgeana</i>		0.1
<i>Boerhavia coccinea</i>		0.1
<i>Bonamia alatisemina</i>		0.1
<i>Bonamia erecta</i>	0.4	0.1
<i>Cajanus cinereus</i>	0.5	0.1
* <i>Cenchrus ciliaris</i>	0.6	0.3
<i>Chrysopogon fallax</i>	1.2	20
<i>Cleome viscosa</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.4	0.2
<i>Corchorus tridens</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	5	1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.2	0.1
<i>Enneapogon lindleyanus</i>	0.4	0.1
<i>Eragrostis cumingii</i>	0.2	0.1
<i>Eragrostis tenellula</i>	0.2	0.1
<i>Eulalia aurea</i>	0.5	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>		0.1
<i>Euphorbia clementii</i> (P3)	0.3	0.1
<i>Euphorbia trigonosperma</i>	0.3	0.1
<i>Goodenia forrestii</i>		0.1
<i>Goodenia triodiophila</i>	0.3	0.1
<i>Gossypium australe</i>	1	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera colutea</i>	0.3	0.1

<i>Indigofera monophylla</i>	0.6	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1.2	0.1
<i>Melhania oblongifolia</i>	0.1	0.1
<i>Notoleptopus decaisnei</i>	0.3	0.1
<i>Paraneurachne muelleri</i>	0.3	0.1
<i>Perotis rara</i>	0.2	0.1
<i>Phyllanthus maderaspatensis</i>	0.2	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polymeria ambigua</i>		0.1
<i>Portulaca oleracea</i>		0.1
<i>Pterocaulon sphacelatum</i>	0.1	0.1
<i>Ptilotus axillaris</i>		0.1
<i>Rhynchosia minima</i>		0.1
<i>Salsola australis</i>	0.6	0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Sida clementii</i>	0.5	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Sporobolus australasicus</i>	0.4	0.1
<i>Stemodia grossa</i>	0.4	0.1
<i>Streptoglossa decurrens</i>	0.3	0.1
<i>Striga curviflora</i>	0.2	0.1
<i>Swainsona formosa</i>	0.1	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.4	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1
<i>Themeda triandra</i>	1.2	0.1
<i>Trianthema pilosum</i>	0.1	0.1
<i>Triodia epactia</i>	0.7	5
<i>Triumfetta clementii</i>	0.2	0.1
<i>Yakirra australiensis</i>	0.1	0.1

PHOTO



Site Name: HER031
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 10/06/2011
 GPS Location: WGS84 Zone 50 673706E 7659224N
 Landform Type: Simple Slope
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NE
 Soil Type: Sandy clay (other)
 Soil Colour: Brown
 Rock Outcrop: Calcrete (other), 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Test pits (other)
 Fire: 1-2 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia inaequilatera*
 Mid Stratum 1: *Ptilotus auriculifolius*
 Lower Stratum 1: *Triodia chichesterensis*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.6	0.1
<i>Acacia inaequilatera</i>	2.5	0.2
* <i>Aerva javanica</i>	0.1	0.1
<i>Boerhavia coccinea</i>		0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Cassytha filiformis</i>		0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Corymbia hamersleyana</i>	0.5	0.1
<i>Dysphania plantaginella</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.4	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>		0.1
<i>Euphorbia clementii</i> (P3)	0.3	
<i>Goodenia microptera</i>	0.3	0.1
<i>Goodenia muelleriana</i>	0.4	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	0.5	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	0.1
<i>Heliotropium cunninghamii</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Portulaca oleracea</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus auriculifolius</i>	0.7	0.2
<i>Ptilotus axillaris</i>		0.1
<i>Ptilotus clementii</i>	0.6	0.1
<i>Salsola australis</i>	0.6	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.5	0.1

<i>Tephrosia clementii</i>	0.1	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tinospora smilacina</i>		0.1
<i>Tribulus hirsutus</i>		0.1
<i>Tribulus suberosus</i>	0.8	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	3
<i>Triodia wiseana</i>	0.4	2
<i>Yakirra australiensis</i>	0.1	0.1

PHOTO

Site Name: HER032
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 12/06/2011
 GPS Location: WGS84 Zone 50 674379E 7660320N
 Landform Type: Drainage Line
 Slope Class: Gently Inclined (3 degrees)
 Aspect: N
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: Calcrete (other), <2% bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Ironstone, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. Pilbara (W.R. Barker 2025)	0.3	0.1
<i>Acacia acradenia</i>	2.5	50
<i>Acacia ancistrocarpa</i>	2	0.1
<i>Acacia inaequilatera</i>	2	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.2	0.1
<i>Bonamia erecta</i>	0.3	0.1
<i>Cassytha filiformis</i>	0.1	0.1
<i>Cleome viscosa</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Corymbia hamersleyana</i>	5	1
<i>Euphorbia clementii</i> (P3)	0.2	0.1
<i>Euphorbia trigonosperma</i>	0.5	0.1
<i>Goodenia forrestii</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Gossypium australe</i>	0.4	0.1
<i>Hibiscus leptocladus</i>	0.7	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.5	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Notoleptopus decaisnei</i>	0.3	0.1
<i>Paspalidium clementii</i>	0.2	0.1
<i>Pluchea dentex</i>	0.4	0.1
<i>Polycarpaea longiflora</i>	0.4	0.1
<i>Polymeria ambigua</i>	0.1	0.1
<i>Pterocaulon sphacelatum</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Senna notabilis</i>	0.3	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1
<i>Triodia epactia</i>	0.4	20
<i>Triodia wiseana</i>	0.4	0.1
<i>Yakirra australiensis</i>	0.2	0.1

PHOTO



Site Name: HER033
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 12/06/2011
 GPS Location: WGS84 Zone 50 674411E 7660056N
 Landform Type: Simple Slope
 Slope Class: Gently Inclined (3 degrees)
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: Calcrete (other), 10-20% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia chichesterensis*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.8	0.2
<i>Cassutha filiformis</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Corymbia hamersleyana</i>	1.8	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Euphorbia clementii</i> (P3)	0.3	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.3
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus clementii</i>	0.3	0.1
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	70
<i>Triodia epactia</i>	0.4	0.1
<i>Triodia wiseana</i>	0.5	2

PHOTO



Site Name: HER034
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 10/06/2011
 GPS Location: WGS84 Zone 50 673706E 7658679N
 Landform Type: Drainage Line
 Slope Class: Gently Inclined (3 degrees)
 Aspect: NE
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: Calcrete (other), <2% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Shale, Riverstones (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana, Eucalyptus victrix*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Cymbopogon ambiguus, Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> aff. <i>hannii</i>	0.6	0.1
<i>Acacia acradenia</i>	3	2
<i>Acacia colei</i> var. <i>colei</i>	2	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.8	0.1
* <i>Aerva javanica</i>	0.9	0.1
<i>Amaranthus undulatus</i>	0.8	0.1
<i>Boerhavia burbridgeana</i>		0.1
<i>Boerhavia coccinea</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cajanus cinereus</i>	1.2	0.1
<i>Cassytha filiformis</i>		0.1
* <i>Cenchrus ciliaris</i>	0.6	0.1
<i>Chrysopogon fallax</i>	1	0.2
<i>Cleome viscosa</i>	0.7	0.1
<i>Corchorus parviflorus</i>	0.5	0.1
<i>Corchorus tridens</i>		0.1
<i>Corymbia hamersleyana</i>	6	1
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	0.7	0.1
<i>Crotalaria novae-hollandiae</i> subsp. <i>novae-hollandiae</i>	0.2	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cullen leucochaites</i>	0.4	0.1
<i>Cymbopogon ambiguus</i>	1.1	1
<i>Cyperus vaginatus</i>	1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.2	0.1
<i>Enneapogon caeruleus</i>	0.2	0.1
<i>Eragrostis tenellula</i>	0.2	0.1
<i>Eriachne benthamii</i>	0.4	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eucalyptus victrix</i>	10	2
<i>Euphorbia careyi</i>	0.1	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.3	0.1
<i>Euphorbia trigonosperma</i>	0.2	0.1

* <i>Flaveria trinervia</i>	0.3	0.1
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1.7	0.1
<i>Gossypium australe</i>	1.3	0.1
<i>Hibiscus coatesii</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.1	0.1
<i>Indigofera linifolia</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.6	0.1
<i>Lepidium ?pholidogynum</i>		0.1
<i>Melaleuca linophylla</i>	2	0.1
<i>Nicotiana benthamiana</i>	0.3	0.1
<i>Notoleptopus decaisnei</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Phyllanthus maderaspatensis</i>	0.3	0.1
<i>Pluchea rubelliflora</i>	0.2	0.1
<i>Polymeria ambigua</i>		0.1
<i>Pterocaulon sphacelatum</i>	0.2	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	2	0.1
<i>Solanum horridum</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Stemodia grossa</i>	0.2	0.1
<i>Swainsona formosa</i>	0.3	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.5	0.1
<i>Themeda triandra</i>	1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.4	0.1
* <i>Trianthema portulacastrum</i>		0.1
<i>Triodia epactia</i>	0.7	70
<i>Triodia longiceps</i>	0.7	0.1
<i>Triodia wiseana</i>	0.4	1
<i>Triumfetta clementii</i>	0.1	0.1
<i>Triumfetta propinqua</i>	0.2	0.1

PHOTO



Site Name: HER035
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 10/06/2011
 GPS Location: WGS84 Zone 50 673625E 7658250N
 Landform Type: Upper Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: NW
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Old ripped track (regenerating) (other)
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Grevillea pyramidalis* subsp. *leucadendron*
 Mid Stratum 2: *Indigofera monophylla*
 Lower Stratum 1: *Triodia epactia*, *Triodia scintillans*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Boerhavia gardneri</i>		0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cajanus cinereus</i>	0.3	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Euphorbia careyi</i>		0.1
<i>Gomphrena cunninghamii</i>	0.3	0.1
<i>Gossypium robinsonii</i>	0.2	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.8	0.2
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	1	
<i>Tribulus suberosus</i>	0.5	0.1
<i>Triodia epactia</i>	0.4	0.5
<i>Triodia scintillans</i>	0.4	60
<i>Triodia wiseana</i>	0.6	1

PHOTO



Site Name: HER036
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 09/06/2011
 GPS Location: WGS84 Zone 50 673588E 7657557N
 Landform Type: Hillock
 Slope Class: Steep (23 degrees)
 Aspect: S
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: Granite, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	0.3	0.1
<i>Boerhavia gardneri</i>		0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	2.3	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	0.4	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.3	0.1
<i>Enneapogon caeruleus</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>		0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Sporobolus australasicus</i>	0.2	0.1
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.2	0.1
<i>Triodia epactia</i>	0.4	50
<i>Triodia scintillans</i>	0.3	0.1
<i>Triodia wiseana</i>	0.3	0.1

PHOTO



Site Name: HER037
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 09/06/2011
 GPS Location: WGS84 Zone 50 672777E 7658153N
 Landform Type: Drainage Line
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: NE
 Soil Type: Sandy clay (other)
 Soil Colour: Brown
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Melaleuca linophylla*
 Mid Stratum 2: *Cajanus cinereus*
 Lower Stratum 1: *Triodia wiseana*
 Lower Stratum 2: *Stemodia grossa*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.5	2
<i>Acacia coriacea</i> subsp. <i>pendens</i>	3	0.1
* <i>Aerva javanica</i>	0.2	0.1
<i>Amaranthus undulatus</i>	0.7	0.1
<i>Ammannia baccifera</i>	0.2	0.1
<i>Aristida burbridgeae</i>	0.6	0.1
<i>Boerhavia gardneri</i>		0.1
<i>Bulbostylis barbata</i>	0.2	0.1
<i>Cajanus cinereus</i>	1.5	0.2
<i>Cassytha filiformis</i>		0.1
<i>Cleome viscosa</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	0.4	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cullen leucochaites</i>	1	0.1
<i>Cymbopogon ambiguus</i>	1.1	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Cyperus squarrosus</i>	0.1	0.1
<i>Eragrostis cumingii</i>	0.2	0.1
<i>Eragrostis tenellula</i>	0.2	0.1
<i>Eriachne benthamii</i>	0.6	0.5
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	1	0.1
<i>Fimbristylis elegans</i>	0.1	0.1
<i>Fimbristylis rara</i>	0.1	0.1
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	2.5	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Gossypium australe</i>	0.7	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.8	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Indigofera linifolia</i>	0.2	0.1

<i>Indigofera monophylla</i>	0.4	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	0.4	0.1
<i>Melaleuca linophylla</i>	3	2
<i>Nicotiana benthamiana</i>	0.2	0.1
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.2	0.1
<i>Paspalidium tabulatum</i>	0.3	0.1
<i>Phyllanthus maderaspatensis</i>	0.3	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.3	0.1
<i>Portulaca oleracea</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Rhynchosia minima</i>		0.1
<i>Solanum horridum</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Stemodia grossa</i>	0.6	1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.4	0.1
<i>Tephrosia densa</i>	0.4	0.1
<i>Terminalia supranitifolia</i> (P3)	3	1
<i>Tinospora smilacina</i>		0.1
<i>Tribulus suberosus</i>	0.3	0.1
<i>Trichosanthes cucumerina</i> var. <i>cucumerina</i>		0.1
<i>Triodia epactia</i>	0.3	0.1
<i>Triodia wiseana</i>	1	20
<i>Triumfetta clementii</i>	0.3	0.1
<i>Triumfetta propinqua</i>	0.4	0.1
<i>Vigna triodiophila</i> (P3)	0.1	0.1
<i>Yakirra australiensis</i>	0.1	0.1

PHOTO



Site Name: HER038
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 09/06/2011
 GPS Location: WGS84 Zone 50 672479E 7657214N
 Landform Type: Drainage Line
 Slope Class: Gently Inclined (3 degrees)
 Aspect: WNW
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Calcrete (other), 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Calcrete, Shale (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia wiseana*
 Lower Stratum 2: *Cyperus vaginatus*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> aff. <i>hannii</i>	0.1	0.1
<i>Acacia acradenia</i>	2.5	50
<i>Acacia coriacea</i> subsp. <i>pendens</i>	3	0.1
<i>Acacia inaequilatera</i>	2	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	0.2
* <i>Aerva javanica</i>	0.1	0.1
<i>Amaranthus undulatus</i>	0.2	0.1
<i>Aristida holathera</i> var. <i>holathera</i>	0.3	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cajanus cinereus</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.2
<i>Cleome viscosa</i>	0.2	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Corymbia hamersleyana</i>	5	1
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	0.3	0.1
<i>Crotalaria novae-hollandiae</i> subsp. <i>novae-hollandiae</i>	0.1	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	1.1	0.1
<i>Cyperus vaginatus</i>	0.8	2
<i>Dactyloctenium radulans</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.2	0.1
<i>Eragrostis cumingii</i>	0.2	0.1
<i>Eragrostis speciosa</i>	0.9	0.1
<i>Eragrostis tenellula</i>	0.3	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.2	0.1
* <i>Flaveria trinervia</i>	0.1	0.1
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1.6	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3.5	0.2

<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Indigofera linifolia</i>	0.1	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1.5	0.1
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
* <i>Passiflora foetida</i> var. <i>hispida</i>		0.1
<i>Pluchea rubelliflora</i>	0.4	0.1
<i>Polymeria ambigua</i>		0.1
<i>Pterocaulon sphacelatum</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Rhynchosia minima</i>		0.1
<i>Salsola australis</i>	0.2	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Stemodia grossa</i>	0.6	0.1
<i>Tinospora smilacina</i>		0.1
* <i>Trianthema portulacastrum</i>	0.1	0.1
<i>Trianthema triquetrum</i>	0.1	0.1
<i>Triodia epactia</i>	0.2	0.1
<i>Triodia scintillans</i>	0.3	3
<i>Triodia wiseana</i>	0.7	5
<i>Yakirra australiensis</i>	0.1	0.1

PHOTO

Site Name: HER039
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 12/05/2011
 GPS Location: GDA94 Zone 50 671761E 7658577N
 Landform Type: Crest, Upper slope (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: E
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Mining exploration (other)
 Fire: 3 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Hakea lorea* subsp. *lorea*
 Mid Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Dampiera candidans*, *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.5	0.1
<i>Acacia inaequilatera</i>	0.3	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	0.1	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dampiera candidans</i>	0.3	5
<i>Dodonaea coriacea</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	1
<i>Hakea lorea</i> subsp. <i>lorea</i>	3	0.1
<i>Indigofera monophylla</i>	0.3	0.2
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Ptilotus incanus</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Tephrosia virens</i>	0.5	0.1
<i>Tinospora smilacina</i>	0.1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Tribulus hirsutus</i>		0.1
<i>Tribulus suberosus</i>	0.4	0.1
<i>Triodia epactia</i>	0.3	45
<i>Triodia wiseana</i>	0.1	0.1
<i>Triumfetta maconochieana</i>	0.4	0.2

PHOTO



Site Name: HERO40
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 13/05/2011
 GPS Location: GDA94 Zone 50 671489E 7658600N
 Landform Type: Mid Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: NNW
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, 10-20% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 3 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Triumfetta propinqua*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	0.2	0.1
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.2
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	0.5	0.1
<i>Cyperus hesperius</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus incanus</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.2	0.1
<i>Triodia epactia</i>	0.3	40
<i>Triodia wiseana</i>	0.3	20
<i>Triumfetta maconochieana</i>	0.3	0.1
<i>Triumfetta propinqua</i>	0.5	0.2

PHOTO



Site Name: HERO41
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 13/05/2011
 GPS Location: GDA94 Zone 50 671476E 7658151N
 Landform Type: Simple Slope
 Slope Class: Steep (23 degrees)
 Aspect: W
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus leucophloia* subsp. *leucophloia*
 Mid Stratum 1: *Acacia acradenia*, *Terminalia supranitifolia*
 Lower Stratum 1: *Cleome viscosa*, *Trachymene oleracea* subsp. *oleracea*, *Triumfetta propinqua*
 Lower Stratum 2: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	0.5
<i>Amaranthus undulatus</i>	0.2	0.1
<i>Aristida burbridgeae</i>	0.2	0.2
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.5	0.5
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Corymbia hamersleyana</i>	1	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.3	0.1
<i>Cyperus hesperius</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.2	0.3
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	8	1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1
<i>Hibiscus goldsworthii</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.5	0.5
<i>Jasminum didymum</i> subsp. <i>lineare</i>	0.1	0.1
<i>Nicotiana benthamiana</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Pluchea dentex</i>	0.4	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus incanus</i>	0.1	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Solanum horridum</i>	0.2	0.1

<i>Solanum phlomoides</i>	0.2	0.1
<i>Streptoglossa decurrens</i>	0.1	0.1
<i>Terminalia supranitifolia</i> (P3)	2	0.1
<i>Tinospora smilacina</i>		0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.5	1
<i>Tribulus suberosus</i>	0.2	0.1
<i>Trichosanthes cucumerina</i> var. <i>cucumerina</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	1
<i>Triodia wiseana</i>	0.3	60
<i>Triumfetta maconochieana</i>	0.2	0.1
<i>Triumfetta propinqua</i>	0.5	0.5

PHOTO

Site Name: HERO42
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 13/05/2011
 GPS Location: GDA94 Zone 50 671551E 7657784N
 Landform Type: Upper Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: W
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Extensive Clearing
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	10
<i>Boerhavia coccinea</i>		0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Cleome viscosa</i>	0.4	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Cymbopogon ambiguus</i>	0.5	0.2
<i>Cyperus hesperius</i>	0.1	0.1
<i>Dampiera candicans</i>	0.4	0.1
<i>Dodonaea coriacea</i>	0.4	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne ciliata</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Goodenia cusackiana</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	4	10
<i>Indigofera monophylla</i>	0.3	0.5
<i>Jasminum didymum</i> subsp. <i>lineare</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	1	0.1
<i>Ptilotus incanus</i>	0.2	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.3	0.1

<i>Triodia epactia</i>	0.4	25
<i>Triodia wiseana</i>	0.4	25
<i>Triumfetta maconochieana</i>	0.5	0.2
<i>Triumfetta propinqua</i>	0.1	0.1

PHOTO

Site Name: HERO43
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 13/05/2011
 GPS Location: GDA94 Zone 50 671727E 7657649N
 Landform Type: Upper Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: E
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 3 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	20
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Corymbia hamersleyana</i>	3.5	0.5
<i>Cyperus hesperius</i>	0.1	0.1
<i>Dampiera candicans</i>	0.3	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.4
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.2
<i>Fimbristylis simulans</i>	0.3	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia cusackiana</i>	0.1	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	5
<i>Indigofera monophylla</i>	0.2	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Ptilotus incanus</i>	0.1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.3	0.1
<i>Trigastrotheca molluginea</i>		
<i>Triodia epactia</i>	0.3	10
<i>Triodia wiseana</i>	0.3	10
<i>Triumfetta maconochieana</i>	1	0.1
<i>Triumfetta propinqua</i>	0.1	0.1

PHOTO



Site Name: HER044
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 14/05/2011
 GPS Location: GDA94 Zone 50 671732E 7657014N
 Landform Type: Upper Slope
 Slope Class: Steep (23 degrees)
 Aspect: SE
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus leucophloia* subsp. *leucophloia*
 Mid Stratum 1: *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Acacia acradenia* 1m 15%
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	15
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.2
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Dampiera candidans</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.2	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	8	1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	20
<i>Indigofera monophylla</i>	0.3	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Triodia epactia</i>	0.3	40
<i>Triodia wiseana</i>	0.3	10

PHOTO



Site Name: HERO45
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 15/05/2011
 GPS Location: GDA94 Zone 50 671473E 7656615N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: W
 Soil Type: Clay Loam (other)
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Granite, Ironstone, Alluvial material (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 3 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	1	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	2
* <i>Aerva javanica</i>	0.3	0.1
<i>Amaranthus undulatus</i>	0.3	0.1
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.2	0.1
<i>Cajanus cinereus</i>	1	0.2
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.3	0.5
<i>Corymbia hamersleyana</i>	10	2
<i>Cucumis variabilis</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	1	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dampiera candicans</i>	0.3	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.3	0.2
<i>Eragrostis cumingii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Gossypium australe</i>	1	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	3
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.5	2
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1	0.3
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Paspalidium tabulatum</i>	0.3	0.1
<i>Phyllanthus maderaspatensis</i>	0.3	0.1
<i>Polycarpaea longiflora</i>	0.1	0.1
<i>Polymeria ambigua</i>	0.1	0.1
<i>Pterocaulon sphacelatum</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1

<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus nobilis</i>	0.3	0.1
<i>Salsola australis</i>	1	0.2
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Swainsona formosa</i>	0.2	0.1
<i>Tinospora smilacina</i>	0.1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.2	0.1
* <i>Trianthema portulacastrum</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	20
<i>Triodia wiseana</i>	0.3	10
<i>Triumfetta propinqua</i>	0.3	0.1

PHOTO

Site Name: HERO46
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 14/05/2011
 GPS Location: GDA94 Zone 50 671451E 7656987N
 Landform Type: Lower Slope, Gully in range (other)
 Slope Class: Steep (23 degrees)
 Aspect: SW
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Extensive Clearing
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus leucophloia* subsp. *leucophloia*
 Mid Stratum 1: *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	3	2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	10
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.8	0.15
<i>Cassytha capillaris</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Cymbopogon ambiguus</i>	0.1	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dampiera candidans</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	8	1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	20
<i>Indigofera monophylla</i>	0.5	0.5
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Ptilotus fusiformis</i>	0.2	0.1
<i>Ptilotus incanus</i>	0.3	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Tephrosia virens</i>	0.1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.2	0.1
<i>Trianthema pilosum</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	30
<i>Triodia wiseana</i>	0.3	30
<i>Triumfetta maconochieana</i>	1	0.1

PHOTO



Site Name: HER047
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 13/05/2011
 GPS Location: GDA94 Zone 50 671328E 7657730N
 Landform Type: Upper Slope, Mid slope (other)
 Slope Class: Precipitous (60 degrees)
 Aspect: N
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Ficus brachypoda*, *Terminalia supranitifolia*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	20
<i>Acacia coriacea</i> subsp. <i>pendens</i>	5	0.2
<i>Amaranthus undulatus</i>	0.3	0.1
<i>Aristida burbridgeae</i>	0.3	0.1
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Cleome viscosa</i>	0.3	0.2
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	1.5	0.3
<i>Cucumis variabilis</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	0.6	0.1
<i>Cyperus hesperius</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.2	0.5
<i>Euphorbia careyi</i>	0.1	0.1
<i>Ficus brachypoda</i>	4	1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.2	0.1
<i>Goodenia muelleriana</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	0.1
<i>Hibiscus goldsworthii</i>	0.6	0.1
<i>Indigofera monophylla</i>	0.3	0.3
<i>Jasminum didymum</i> subsp. <i>lineare</i>		0.1
<i>Mallotus nesophilus</i>	1	0.1
<i>Nicotiana benthamiana</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Paspalidium tabulatum</i>	0.2	0.2
<i>Polycarpaea longiflora</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus incanus</i>	0.2	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	0.5	0.1

<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.1	0.1
<i>Striga curviflora</i>	0.2	0.1
<i>Tephrosia virens</i>	0.2	0.1
<i>Terminalia supranitifolia</i> (P3)	3	0.5
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Trichosanthes cucumerina</i> var. <i>cucumerina</i>		0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	10
<i>Triodia wiseana</i>	0.3	60
<i>Triumfetta maconochieana</i>	0.5	0.2
<i>Triumfetta propinqua</i>	0.2	0.1

PHOTO

Site Name: HERO49
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 14/05/2011
 GPS Location: GDA94 Zone 50 671353E 7657619N
 Landform Type: Crest, Upper slope (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: W
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Extensive Clearing
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.1	0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Cyperus hesperius</i>	0.1	0.1
<i>Dampiera candidans</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.4
<i>Euphorbia careyi</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3.5	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Ptilotus incanus</i>	0.3	0.2
<i>Senna notabilis</i>	0.3	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.2
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	65
<i>Triodia wiseana</i>	0.3	0.1
<i>Triumfetta maconochieana</i>	1	0.1

PHOTO



Site Name: HER050
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 16/05/2011
 GPS Location: GDA94 Zone 50 670978E 7658454N
 Landform Type: Plain, Undulating (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: W
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia inaequilatera*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*, *Acacia inaequilatera*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	1
<i>Acacia inaequilatera</i>	2	1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.2	1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.1	0.1
<i>Tribulus suberosus</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	50
<i>Triodia wiseana</i>	0.3	0.1

PHOTO



Site Name: HER051
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/05/2011
 GPS Location: GDA94 Zone 50 670982E 7659485N
 Landform Type: Upper Slope, Mild slope (other)
 Slope Class: Very Steep (37 degrees)
 Aspect: W
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 3 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	2.5	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Dampiera candidans</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.2
<i>Gossypium australe</i>	0.5	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.4
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	70
<i>Triodia wiseana</i>	0.3	0.2
<i>Triumfetta propinqua</i>	0.3	0.1

PHOTO



Site Name: HER052
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 14/05/2011
 GPS Location: GDA94 Zone 50 671177E 7657246N
 Landform Type: Upper Slope, Mid slope, scree slope (other)
 Slope Class: Precipitous (60 degrees)
 Aspect: N
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia acradenia*, *Terminalia supranitifolia*
 Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	3	0.2
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Cucumis variabilis</i>	0.1	0.1
<i>Cyperus hesperius</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.3	0.2
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.1	0.1
<i>Terminalia supranitifolia</i> (P3)	3	0.1
<i>Triodia wiseana</i>	0.3	74
<i>Triumfetta propinqua</i>	0.2	0.1

PHOTO



Site Name: HER053
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 15/05/2011
 GPS Location: GDA94 Zone 50 670935E 7657053N
 Landform Type: Crest, Upper slope (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: W
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 10-20%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.4	20
<i>Amaranthus interruptus</i>	0.1	0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Codonocarpus cotinifolius</i>	1.5	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.2
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.4	10
<i>Indigofera monophylla</i>	0.3	0.2
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Ptilotus fusiformis</i>	0.3	0.1
<i>Ptilotus incanus</i>	0.2	0.1
<i>Schizachyrium fragile</i>	0.1	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.1	0.1
<i>Triodia epactia</i>	0.3	30
<i>Triodia wiseana</i>	0.3	2

PHOTO



Site Name: HER054
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 14/05/2011
 GPS Location: GDA94 Zone 50 670992E 7656961N
 Landform Type: Other, Cliff (other)
 Slope Class: Clifted (80 degrees)
 Aspect: SSW
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus leucophloia* subsp. *leucophloia*, *Ficus brachypoda*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	2
* <i>Aerva javanica</i>	0.4	0.1
<i>Amaranthus interruptus</i>	0.1	0.1
<i>Amaranthus undulatus</i>	0.4	0.1
<i>Aristida burbridgeae</i>	0.4	0.1
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.3	0.1
<i>Cymbopogon ambiguus</i>	0.5	0.2
<i>Cyperus hesperius</i>	0.5	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	8	3
<i>Euphorbia careyi</i>	0.1	0.1
<i>Ficus brachypoda</i>	6	30
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	2	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.3	0.2
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1	0.1
<i>Mallotus nesophilus</i>	2	0.1
<i>Nicotiana benthamiana</i>	0.2	0.1
<i>Paspalidium tabulatum</i>	0.3	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1
<i>Solanum horridum</i>	0.2	0.1
<i>Streptoglossa decurrens</i>	0.1	0.1
<i>Terminalia supranitifolia</i> (P3)	1	0.2
<i>Tinospora smilacina</i>	0.1	0.1
<i>Trichosanthes cucumerina</i> var. <i>cucumerina</i>		0.1

<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	20
<i>Triodia wiseana</i>	0.3	20

PHOTO

Site Name: HER055
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 15/05/2011
 GPS Location: GDA94 Zone 50 670833E 7656933N
 Landform Type: Mid Slope, Lower slope, scree slope (other)
 Slope Class: Precipitous (60 degrees)
 Aspect: S
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Granite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 3 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Cleome viscosa*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	0.3	0.1
<i>Amaranthus undulatus</i>	0.3	0.1
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.3
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Cyperus hesperius</i>	0.3	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Enneapogon caerulescens</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	0.1
<i>Goodenia microptera</i>	0.2	0.1
<i>Gossypium australe</i>	0.5	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.5	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Nicotiana benthamiana</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.1	0.1
<i>Pterocaulon sphacelatum</i>	0.2	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus fusiformis</i>	0.2	0.1
<i>Ptilotus incanus</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia wiseana</i>	0.3	40
<i>Triumfetta propinqua</i>	0.1	0.1

PHOTO



Site Name: HER056
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 15/05/2011
 GPS Location: GDA94 Zone 50 670564E 7657000N
 Landform Type: Drainage Line, Broad flat (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: W
 Soil Type: Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 10-20%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone, Quartz, Alluvial material (other)
 Vegetation Condition: Northern Vegetation Condition - G - Good
 Disturbance: Exotic Weeds
 Fire: 3/5 > mixed

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia pyrifolia* var. *pyrifolia*, *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Indigofera monophylla*, *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.5	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	4	5
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	5
* <i>Aerva javanica</i>	0.5	1
<i>Amaranthus undulatus</i>	1	0.5
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
* <i>Cenchrus ciliaris</i>	0.3	0.1
<i>Cleome viscosa</i>	0.3	0.2
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Corchorus tridens</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	8	2
<i>Cucumis variabilis</i>	0.1	0.2
<i>Cyperus hesperius</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.3	0.2
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Euphorbia careyi</i>	0.1	0.2
<i>Gomphrena cunninghamii</i>	0.3	0.1
<i>Gossypium australe</i>	0.5	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.3	10
<i>Jasminum didymum</i> subsp. <i>lineare</i>	2	0.1
<i>Notoleptopus decaisnei</i>	0.3	0.3
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Operculina aequisejala</i>	0.1	0.1
<i>Paspalidium clementii</i>	0.2	0.1
<i>Paspalidium tabulatum</i>	0.3	1
<i>Phyllanthus maderaspatensis</i>	0.4	0.1
<i>Polycarpha holtzei</i>	0.1	0.1

<i>Polycarpha longiflora</i>	0.1	0.1
<i>Pterocaulon sphacelatum</i>	0.3	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Salsola australis</i>	1	0.3
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.4	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	2	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Sporobolus australasicus</i>	0.2	0.1
<i>Striga curviflora</i>	0.1	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.4	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.2	0.1
<i>Trianthema pilosum</i>	0.1	0.1
* <i>Trianthema portulacastrum</i>	0.2	0.4
<i>Tribulus suberosus</i>	0.4	0.1
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.2	0.1
<i>Triodia epactia</i>	0.3	20
<i>Triodia wiseana</i>	0.3	10
<i>Triumfetta propinqua</i>	0.2	0.1

PHOTO

Site Name: HER057
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 16/05/2011
 GPS Location: GDA94 Zone 50 670404E 7656854N
 Landform Type: Hillock
 Slope Class: Gently Inclined (3 degrees)
 Aspect: W
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Granite, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia inaequilatera*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia brizoides*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	0.5
<i>Acacia ancistrocarpa</i>	0.3	0.1
<i>Acacia inaequilatera</i>	3	0.3
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.3
<i>Goodenia stobbsiana</i>	0.3	0.2
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1.5	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.5
<i>Indigofera monophylla</i>	0.3	0.3
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Tribulus suberosus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.3	70
<i>Triodia wiseana</i>	0.3	0.1

PHOTO



Site Name: HER058
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 16/05/2011
 GPS Location: GDA94 Zone 50 670502E 7657398N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: NW
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: Granite, 10-20% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	3	2
<i>Boerhavia coccinea</i>	0.3	0.2
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Eriachne ciliata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.2
<i>Indigofera monophylla</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Triodia epactia</i>	0.3	30
<i>Triodia wiseana</i>	0.4	40

PHOTO



Site Name: HER059
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 16/05/2011
 GPS Location: GDA94 Zone 50 670639E 7657394N
 Landform Type: Crest, Ridge (other)
 Slope Class: Clifted (80 degrees)
 Aspect: E
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: >90%
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	2
<i>Amaranthus undulatus</i>	0.3	0.2
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.3
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Cucumis variabilis</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	0.3	0.1
<i>Cyperus hesperius</i>	0.1	0.1
<i>Eriachne ciliata</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.3	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.3	0.1
<i>Euphorbia careyi</i>	0.1	0.2
<i>Gomphrena cunninghamii</i>	0.2	0.5
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	2
<i>Hibiscus coatesii</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Nicotiana benthamiana</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.2	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.3	0.1
<i>Triodia wiseana</i>	0.3	45
<i>Triumfetta propinqua</i>	0.2	0.2

PHOTO



Site Name: HER060
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 16/05/2011
 GPS Location: GDA94 Zone 50 670743E 7658192N
 Landform Type: Hillock
 Slope Class: Very Steep (37 degrees)
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Old gold shaft (other)
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	2
<i>Amaranthus undulatus</i>	0.3	0.1
<i>Boerhavia coccinea</i>	0.2	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
* <i>Cenchrus ciliaris</i>	0.3	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Cucumis variabilis</i>	0.1	0.2
<i>Cymbopogon ambiguus</i>	1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.2
<i>Fimbristylis dichotoma</i>	0.2	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Notoleptopus decaisnei</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.3	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Rhynchosia minima</i>	0.1	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	5
<i>Triodia wiseana</i>	0.3	55
<i>Triumfetta propinqua</i>	0.3	0.2

PHOTO



Site Name: HER061
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 16/05/2011
 GPS Location: GDA94 Zone 50 670845E 7658298N
 Landform Type: Lower Slope, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: W
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 60-200mm
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia acradenia*, *Acacia inaequilatera*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.5	2
<i>Acacia inaequilatera</i>	3	0.5
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.3
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Stemodia grossa</i>	0.5	0.1
<i>Triodia epactia</i>	0.3	70

PHOTO



Site Name: HER062
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 16/05/2011
 GPS Location: GDA94 Zone 50 670529E 7658273N
 Landform Type: Plain, Undulating (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: S
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 200-600mm
 CF Types: Granite, Dolerite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Limited Clearing
 Fire: 3 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*

Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	2
<i>Acacia inaequilatera</i>	0.3	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.2
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cassytha capillaris</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.3
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.3	0.1
<i>Fimbristylis simulans</i>	0.2	0.3
<i>Indigofera monophylla</i>	0.3	0.2
<i>Paspalidium clementii</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tribulus suberosus</i>	0.2	0.1
<i>Triodia epactia</i>	0.3	70

PHOTO



Site Name: HER063
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 15/05/2011
 GPS Location: GDA94 Zone 50 671025E 7656689N
 Landform Type: Mid Slope, Lower slope, scree slope (other)
 Slope Class: Very Steep (37 degrees)
 Aspect: N
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Ironstone, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 3 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia inaequilatera*
 Mid Stratum 1: *Cleome viscosa*, *Ptilotus auriculifolius*
 Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	3	0.1
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.4	10
<i>Corchorus parviflorus</i>	0.3	0.2
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.3	0.1
<i>Goodenia muelleriana</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.5	20
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus fusiformis</i>	0.3	0.1
<i>Ptilotus incanus</i>	0.2	0.1
<i>Salsola australis</i>	0.5	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	0.5	0.1
<i>Senna glutinosa</i> subsp. <i>pruinosa</i>	0.5	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Tribulus hirsutus</i>	0.1	0.2
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia wiseana</i>	0.3	30

PHOTO



Site Name: HER064
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/05/2011
 GPS Location: GDA94 Zone 50 670859E 7659946N
 Landform Type: Crest, Hillock, Upper slope (other)
 Slope Class: Precipitous (60 degrees)
 Soil Type: Loam
 Soil Colour: Red
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia ancistrocarpa*, *Grevillea wickhamii* subsp. *hispidula*

Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.5	0.5
<i>Acacia ancistrocarpa</i>	2	1
<i>Acacia inaequilatera</i>	0.5	0.1
<i>Amaranthus undulatus</i>	0.4	0.2
<i>Boerhavia coccinea</i>	0.2	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.3	0.1
<i>Enneapogon caeruleus</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gossypium australe</i>	0.4	1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Nicotiana benthamiana</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.4	0.1
<i>Senna glutinosa</i> subsp. <i>pruinosa</i>	0.3	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Tribulus suberosus</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	0.2
<i>Triodia wiseana</i>	0.4	50

PHOTO



Site Name: HER066
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 12/06/2011
 GPS Location: WGS84 Zone 50 672334E 7660044N
 Landform Type: Simple Slope
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NE
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Test pit (other)
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana* 4m 0.1%
 Mid Stratum 1: *Acacia acradenia* 1.6m 25%
 Lower Stratum 1: *Triodia epactia* 0.4m 70%

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.6	25
<i>Acacia ancistrocarpa</i>	1.4	0.1
<i>Acacia inaequilatera</i>	1.8	0.1
<i>Corymbia hamersleyana</i>	4	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Triodia epactia</i>	0.4	70

PHOTO



Site Name: HER067
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 09/06/2011
 GPS Location: WGS84 Zone 50 672736E 7657385N
 Landform Type: Upper Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: S
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: Granite, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

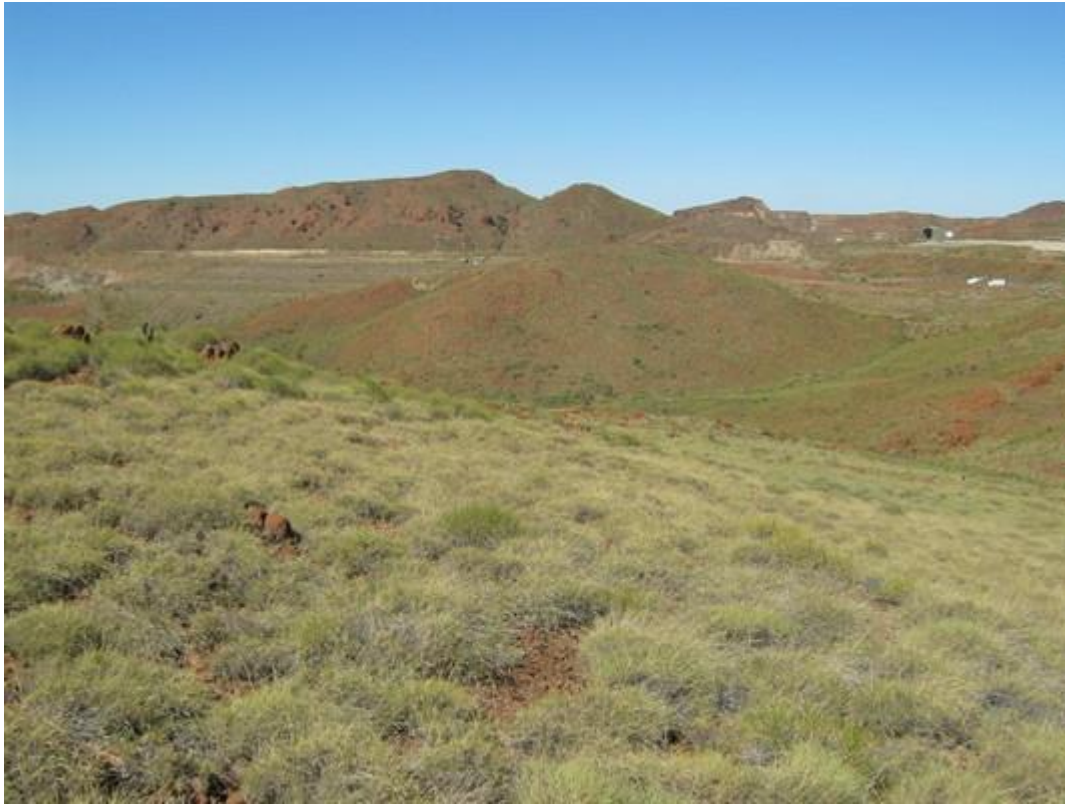
DOMINANT TAXA IN VEGETATION STRATA

Lower Stratum 1: *Triodia scintillans*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	0.8	0.1
<i>Boerhavia gardneri</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Cullen leucochaites</i>	0.5	0.1
<i>Cymbopogon ambiguus</i>	0.4	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Enneapogon caeruleus</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gossypium australe</i>	0.6	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1.8	0.1
<i>Indigofera linifolia</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Rhynchosia minima</i>		0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia scintillans</i>	0.3	90
<i>Triodia wiseana</i>	0.5	1.5

PHOTO



Site Name: HERO68
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 14/06/2011
 GPS Location: WGS84 Zone 50 674034E 7660363N
 Landform Type: Hillock
 Slope Class: Steep (23 degrees)
 Aspect: S
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: Calcrete (other), >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 2 to 3 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Gomphrena cunninghamii*
 Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. Dioicum (A.A. Mitchell PRP 1618)	0.2	0.1
<i>Acacia inaequilatera</i>	1.7	0.1
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Boerhavia gardneri</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cassytha filiformis</i>	0.1	0.1
<i>Cleome viscosa</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.7	0.1
<i>Cymbopogon ambiguus</i>	0.6	0.1
<i>Cyperus hesperius</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.3	
<i>Gomphrena cunninghamii</i>	0.2	0.2
<i>Gossypium australe</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.5	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	2	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
* <i>Passiflora foetida</i> var. <i>hispidula</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.4	0.1
<i>Rhynchosia minima</i>	0.1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.4	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tinospora smilacina</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.7	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	0.2
<i>Triodia wiseana</i>	0.6	30

PHOTO



Site Name: HER069
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 14/06/2011
 GPS Location: WGS84 Zone 50 673689E 7659945N
 Landform Type: Plain
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: E
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia inaequilatera*
 Lower Stratum 1: *Triodia epactia*, *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2.5	0.1
<i>Acacia inaequilatera</i>	2.5	10
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2.7	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.5	0.1
<i>Aristida holathera</i> var. <i>holathera</i>	0.5	0.1
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cassytha filiformis</i>	0.1	0.1
<i>Chrysopogon fallax</i>	0.9	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.1	0.1
<i>Cleome viscosa</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.7	0.1
<i>Corymbia hamersleyana</i>	4	0.2
<i>Cucumis variabilis</i>	0.1	0.1
<i>Cullen martinii</i>	0.3	0.1
<i>Eragrostis eriopoda</i>	0.3	0.1
<i>Eriachne aristidea</i>	0.3	0.1
<i>Eriachne obtusa</i>	0.4	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.4	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.7	0.1
<i>Goodenia forrestii</i>	0.3	0.1
<i>Gossypium australe</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.2	0.1
<i>Indigofera colutea</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1	0.1
<i>Mitrasacme connata</i>	0.1	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1

<i>Ptilotus auriculifolius</i>	0.4	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Schizachyrium fragile</i>	0.4	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1
<i>Trianthema pilosum</i>	0.2	0.2
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	5
<i>Triodia lanigera</i>	0.7	60
<i>Yakirra australiensis</i>	0.1	0.1

PHOTO

Site Name: HER070
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 14/06/2011
 GPS Location: WGS84 Zone 50 674301E 7660500N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Aspect: N
 Soil Type: Sandy Loam
 Soil Colour: Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: 5+ years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia ancistrocarpa*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.3	0.1
<i>Acacia ancistrocarpa</i>	3	40
<i>Acacia inaequilatera</i>	2	0.1
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Euphorbia clementii</i> (P3)	0.3	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.2	0.1
<i>Gossypium australe</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Ptilotus fusiformis</i>	0.5	0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Trianthema pilosum</i>	0.2	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	0.1
<i>Triodia lanigera</i>	0.4	50
<i>Yakirra australiensis</i>	0.2	0.1

PHOTO



Site Name: TRH052
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 671815E 7653405N
 Landform Type: Crest
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: SE
 Soil Type: Clay Loam
 Soil Colour: Red
 Soil Depth: Skeletal
 Rock Outcrop: Ironstone, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 600-2000mm, 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	3
<i>Acacia spondylophylla</i>	0.4	6
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.8	0.5
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.4	0.1
<i>Dampiera candidans</i>	0.2	0.2
<i>Eriachne mucronata</i>	0.3	2
<i>Euphorbia careyi</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	0.6	0.4
<i>Indigofera monophylla</i>	0.1	0.3
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	2	0.2
<i>Solanum phlomoides</i>	0.5	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1
<i>Tribulus suberosus</i>	0.4	0.1
<i>Triodia brizoides</i>	0.2	20
<i>Triodia wiseana</i>	0.3	64
<i>Triumfetta propinqua</i>	0.1	0.1

PHOTO



Site Name: TRH056
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 673280E 7653422N
 Landform Type: Crest
 Slope Class: Steep (23 degrees)
 Aspect: ENE
 Soil Type: Clay Loam
 Soil Colour: Red
 Soil Depth: Skeletal
 Rock Outcrop: Ironstone, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, 2-6mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	1
<i>Acacia inaequilatera</i>	0.5	0.5
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.3	0.3
<i>Cullen leucochaites</i>	1.5	0.5
<i>Cymbopogon ambiguus</i>	0.3	2
<i>Dampiera candidans</i>	0.1	0.3
<i>Euphorbia careyi</i>	0.1	0.2
<i>Gossypium australe</i>	0.5	1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.5
<i>Indigofera monophylla</i>	0.5	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	0.7	0.3
<i>Tephrosia densa</i>	0.4	0.1
<i>Tribulus suberosus</i>	0.4	0.3
<i>Triodia brizoides</i>	0.3	20
<i>Triodia scintillans</i>	0.2	3
<i>Triodia wiseana</i>	0.3	20

PHOTO



Site Name: TRH057
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 673553E 7653900N
 Landform Type: Crest
 Slope Class: Very Steep (37 degrees)
 Aspect: NNW
 Soil Type: Clay Loam
 Soil Colour: Red
 Soil Depth: Skeletal
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, 2-6mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	0.2	0.1
<i>Cyperus hesperius</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.1	1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	6	2
<i>Euphorbia careyi</i>	0.1	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.3	0.3
<i>Terminalia supranitifolia</i> (P3)	0.5	0.5
<i>Triodia brizoides</i>	0.1	5
<i>Triodia wiseana</i>	0.1	7

PHOTO



Site Name: TRH058
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 673796E 7653684N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: ENE
 Soil Type: Sandy Loam
 Soil Colour: Red
 Soil Depth: Shallow
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: River stones (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. Dioicum (A.A. Mitchell PRP 1618)	0.6	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2	35
<i>Amaranthus undulatus</i>	1	0.5
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Boerhavia gardneri</i>	0.3	0.2
<i>Cajanus cinereus</i>	0.4	0.2
* <i>Cenchrus ciliaris</i>	0.1	0.4
<i>Chrysopogon fallax</i>	0.2	3
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Corymbia hamersleyana</i>	1.8	15
<i>Cymbopogon ambiguus</i>	0.3	3
<i>Cyperus hesperius</i>	0.2	0.1
<i>Enneapogon caeruleus</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.1	2
<i>Eriachne tenuiculmis</i>	0.2	5
<i>Eucalyptus victrix</i>	1.6	10
<i>Euphorbia careyi</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.1	0.1
<i>Gossypium australe</i>	0.3	3
<i>Heliotropium tenuifolium</i>	0.1	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.1	0.5
<i>Indigofera monophylla</i>	0.4	5
<i>Jasminum didymum</i> subsp. <i>lineare</i>		0.5
<i>Melaleuca linophylla</i>	2	3
<i>Phyllanthus maderaspatensis</i>	0.3	0.1
<i>Polymeria ambigua</i>	0.1	1
<i>Pterocaulon sphacelatum</i>	0.6	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.2
<i>Rhynchosia minima</i>		0.3
<i>Senna notabilis</i>	0.1	0.3
<i>Solanum phlomoides</i>	0.2	0.1
<i>Swainsona formosa</i>	0.2	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.2	0.1
<i>Tribulus suberosus</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	1

<i>Triodia wiseana</i>	0.1	0.5
<i>Triumfetta propinqua</i>	0.4	0.3

PHOTO

Site Name: TRH059
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 673905E 7654186N
 Landform Type: Upper Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: E
 Soil Type: Clay Loam
 Soil Colour: Red
 Soil Depth: Skeletal
 Rock Outcrop: Ironstone, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, 2-6mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.5	0.5
<i>Acacia inaequilatera</i>	2	2.5
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.3	0.2
<i>Corymbia hamersleyana</i>	4	3
<i>Cymbopogon ambiguus</i>	0.5	0.5
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dampiera candidans</i>	0.3	0.2
<i>Eriachne mucronata</i>	0.2	0.3
<i>Euphorbia careyi</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	2
<i>Tribulus suberosus</i>	0.3	0.2
<i>Triodia wiseana</i>	0.4	60
<i>Triumfetta propinqua</i>	0.3	0.1

PHOTO



Site Name: TRH060
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 674326E 7654183N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: SE
 Soil Type: Clay Loam
 Soil Colour: Red
 Soil Depth: Skeletal
 Rock Outcrop: Granite, 10-20% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, 2-6mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	1	0.3
<i>Acacia maitlandii</i>	1.5	2
<i>Acacia orthocarpa</i>	1.5	25
<i>Acacia spondylophylla</i>	0.4	10
<i>Acacia stellaticeps</i>	0.8	4
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	3
<i>Corymbia hamersleyana</i>	8	1.5
<i>Dampiera candidans</i>	0.5	0.2
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	3
<i>Pluchea tetranthera</i>	0.4	0.2
<i>Triodia brizoides</i>	0.3	65
<i>Triodia epactia</i>	0.4	25

PHOTO



Site Name: TRH061
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 674323E 7654539N
 Landform Type: Lower Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: NW
 Soil Type: Clay Loam
 Soil Colour: Red
 Soil Depth: Skeletal
 Rock Outcrop: Granite, 10-20% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, 2-6mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia spondylophylla</i>	0.5	25
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	17
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.4	0.5
<i>Dampiera candidans</i>	0.6	0.1
<i>Eriachne mucronata</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	3
<i>Indigofera monophylla</i>	0.3	0.1
<i>Triodia epactia</i>	0.4	59
<i>Triodia wiseana</i>	0.4	1

PHOTO



Site Name: TRH062
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 674900E 7654560N
 Landform Type: Plain
 Slope Class: Gently Inclined (3 degrees)
 Aspect: SE
 Soil Type: Clay Loam
 Soil Colour: Red
 Soil Depth: Skeletal
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	1
<i>Acacia orthocarpa</i>	2	4
<i>Acacia spondylophylla</i>	0.4	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	3
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.1	0.1
<i>Codonocarpus cotinifolius</i>	1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Triodia brizoides</i>	0.3	35
<i>Triodia epactia</i>	0.5	10
<i>Triodia lanigera</i>	0.4	35

PHOTO



Site Name: TRH063
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674996E 7655241N
 Landform Type: Plain
 Slope Class: Gently Inclined (3 degrees)
 Aspect: SE
 Soil Type: Clay Loam
 Soil Colour: Red
 Soil Depth: Skeletal
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	0.8	0.3
<i>Acacia inaequilatera</i>	2	0.5
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Corymbia hamersleyana</i>	8	2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.2
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Tribulopsis angustifolia</i>	0.3	10
<i>Tribulus hirsutus</i>	0.2	0.1
<i>Triodia scintillans</i>	0.1	25
<i>Triodia wiseana</i>	0.4	2

PHOTO



Site Name: TRH064
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 675294E 7655120N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: SSE
 Soil Type: Sandy Loam
 Soil Colour: Orange
 Soil Depth: Moderate
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: River stones (other)
 Vegetation Condition: Northern Vegetation Condition - P - Poor
 Disturbance: Exotic Weeds - Moderate to high weed cover, Pig/Animal Disturbance - Cattle and kangaroo activity

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	0.5	18
<i>Acacia tumida</i> var. <i>pilbarensis</i>	1.2	0.2
<i>Adriana tomentosa</i> var. <i>tomentosa</i>	0.6	0.1
* <i>Aerva javanica</i>	0.4	4
<i>Boerhavia burbridgeana</i>	0.1	0.1
<i>Boerhavia coccinea</i>	0.2	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
* <i>Cenchrus ciliaris</i>	0.2	15
* <i>Cenchrus setiger</i>	0.3	15
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.3	0.5
<i>Corymbia hamersleyana</i>	8	2
<i>Cymbopogon ambiguus</i>	0.4	4
? <i>Dysphania</i> sp.	0.3	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Fimbristylis rara</i>	0.1	0.1
<i>Gossypium australe</i>	0.3	0.4
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	0.5	2
<i>Heliotropium tenuifolium</i>	0.2	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.5	0.1
<i>Hybanthus aurantiacus</i>	0.1	0.3
<i>Indigofera monophylla</i>	0.3	10
<i>Petalostylis labicheoides</i>	1.2	0.8
<i>Phyllanthus maderaspatensis</i>	0.6	0.1
<i>Polymeria ambigua</i>	0.1	0.2
<i>Pterocaulon sphacelatum</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.5
<i>Rhynchosia minima</i>		0.1
<i>Santalum lanceolatum</i>		
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.5	0.1
<i>Senna glutinosa</i> x	1	0.1
<i>Solanum phlomoides</i>	0.1	0.2
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.3	0.4
<i>Tribulus hirsutus</i>	0.1	0.1

<i>Triodia epactia</i>	0.2	3
------------------------	-----	---

PHOTO



Site Name: TRH065
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 675159E 7655527N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: SSE
 Soil Type: Loam
 Soil Colour: Orange
 Soil Depth: Moderate
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: River stones (other)
 Vegetation Condition: Northern Vegetation Condition - P - Poor
 Disturbance: Exotic Weeds - High weed cover, Pig/Animal Disturbance - Cattle activity

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	3	0.5
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2	20
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.2	4
* <i>Aerva javanica</i>	0.6	8
<i>Boerhavia burbridgeana</i>	0.1	0.1
<i>Boerhavia gardneri</i>	0.2	0.1
* <i>Cenchrus ciliaris</i>	0.1	35
* <i>Cenchrus setiger</i>	0.2	10
<i>Cleome viscosa</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Corymbia hamersleyana</i>	4	0.5
<i>Gossypium australe</i>	0.4	0.8
<i>Hybanthus aurantiacus</i>	0.1	0.3
<i>Indigofera monophylla</i>	0.4	7
<i>Notoleptopus decaisnei</i>	0.2	0.1
<i>Phyllanthus maderaspatensis</i>	0.5	0.1
<i>Polymeria ambigua</i>	0.1	0.1
<i>Pterocaulon sphacelatum</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.2
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	1	0.5
<i>Senna ?glaucifolia</i>	1	0.3
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.8	0.5
<i>Senna notabilis</i>	0.1	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.4	0.5
<i>Triodia epactia</i>	0.3	15

PHOTO



Site Name: TRH066
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674911E 7655515N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: SE
 Soil Type: Sandy Loam
 Soil Colour: Orange
 Soil Depth: Skeletal
 Rock Outcrop: Ironstone, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	1.5	4
<i>Acacia orthocarpa</i>	2.2	3
<i>Acacia spondylophylla</i>	0.5	2
<i>Boerhavia coccinea</i>	0.2	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Corymbia hamersleyana</i>	5	8
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.3
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.2
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	13
<i>Triodia scintillans</i>	0.3	4
<i>Triodia wiseana</i>	0.4	12

PHOTO



Site Name: TRH067
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 675351E 7655801N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: E
 Soil Type: Sandy Loam
 Soil Colour: Red
 Soil Depth: Skeletal
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	0.5
<i>Acacia orthocarpa</i>	2.2	4
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	4	1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Senna glutinosa</i> subsp. <i>pruinosa</i>	1.2	0.5
<i>Triodia epactia</i>	0.3	4
<i>Triodia lanigera</i>	0.3	88

PHOTO



Site Name: W01A
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 23/04/2018
 GPS Location: GDA94 Zone 50 671921E 7655136N
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>		1
<i>Aristida holathera</i> var. <i>holathera</i>		1
<i>Corchorus parviflorus</i>		1
<i>Corymbia hamersleyana</i>		1
<i>Dampiera candicans</i>		1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>		1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>		1
<i>Goodenia stobbsiana</i>		1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>		1
<i>Indigofera monophylla</i>		1
<i>Ptilotus calostachyus</i>		1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)		1
<i>Tephrosia virens</i>		1
<i>Triodia brizoides</i>		1
<i>Triodia epactia</i>		1
<i>Triumfetta maconochieana</i>		1

PHOTO

Site Name: W02A
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 25/04/2018
 GPS Location: GDA94 Zone 50 671753E 7653638N
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>		1
<i>Acacia inaequilatera</i>		1
<i>Bonamia pilbarensis</i>		1
<i>Corchorus parviflorus</i>		1
<i>Cymbopogon ambiguus</i>		1
<i>Cyperus hesperius</i>		1
<i>Euphorbia careyi</i>		1
<i>Indigofera monophylla</i>		1
<i>Polygala glaucifolia</i>		1
<i>Triodia brizoides</i>		1
<i>Triodia wiseana</i>		1

PHOTO

Site Name: W03A
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 25/04/2018
 GPS Location: GDA94 Zone 50 671651E 7654754N
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>		1
<i>Acacia tumida</i> var. <i>pilbarensis</i>		1
<i>Corymbia hamersleyana</i>		1
<i>Cymbopogon ambiguus</i>		1
<i>Cyperus hesperius</i>		1
<i>Dampiera candidans</i>		1
<i>Eriachne ciliata</i>		1
<i>Eriachne mucronata</i>		1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>		1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>		1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>		1
<i>Indigofera monophylla</i>		1
<i>Ptilotus astrolasius</i>		1
<i>Ptilotus fusiformis</i>		1
<i>Ptilotus incanus</i>		1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)		1
<i>Solanum phlomoides</i>		1
<i>Triodia brizoides</i>		1
<i>Triodia epactia</i>		1

PHOTO



Site Name: W04A
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 26/04/2018
 GPS Location: GDA94 Zone 50 673059E 7653962N
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>		1
<i>Acacia inaequilatera</i>		1
<i>Boerhavia gardneri</i>		1
<i>Bonamia pilbarensis</i>		1
<i>Cleome viscosa</i>		1
<i>Corchorus parviflorus</i>		1
<i>Cucumis variabilis</i>		1
<i>Cyperus hesperius</i>		1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>		1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>		1
<i>Goodenia stobbsiana</i>		1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>		1
<i>Hakea lorea</i> subsp. <i>lorea</i>		1
<i>Indigofera monophylla</i>		1
<i>Rhynchosia minima</i>		1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>		1
<i>Solanum phlomoides</i>		1
<i>Swainsona formosa</i>		1
<i>Triodia brizoides</i>		1
<i>Triodia epactia</i>		1
<i>Triodia scintillans</i>		1
<i>Triodia wiseana</i>		1
<i>Triumfetta maconochieana</i>		1

PHOTO



Site Name: W05A
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/04/2018
 GPS Location: GDA94 Zone 50 671387E 7657491N
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years / > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>		1
<i>Acacia inaequilatera</i>		1
<i>Bonamia pilbarensis</i>		1
<i>Cassytha capillaris</i>		1
<i>Corchorus parviflorus</i>		1
<i>Corymbia hamersleyana</i>		1
<i>Cymbopogon ambiguus</i>		1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>		1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>		1
<i>Euphorbia careyi</i>		1
<i>Goodenia stobbsiana</i>		1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>		1
<i>Indigofera monophylla</i>		1
<i>Ptilotus astrolasius</i>		1
<i>Ptilotus calostachyus</i>		1
<i>Ptilotus incanus</i>		1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>		1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)		1
<i>Solanum phlomoides</i>		1
<i>Triodia epactia</i>		1
<i>Triodia wiseana</i>		1

PHOTO



Site Name: W06A
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/04/2018
 GPS Location: GDA94 Zone 50 672066E 7657228N
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2-3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>		1
<i>Acacia inaequilatera</i>		1
<i>Corchorus parviflorus</i>		1
<i>Dampiera candicans</i>		1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>		1
<i>Gomphrena cunninghamii</i>		1
<i>Gossypium australe</i>		1
<i>Hakea lorea</i> subsp. <i>lorea</i>		1
<i>Hibiscus coatesii</i>		1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>		1
<i>Indigofera monophylla</i>		1
<i>Ptilotus calostachyus</i>		1
<i>Ptilotus exaltatus</i>		1
<i>Ptilotus incanus</i>		1
<i>Salsola australis</i>		1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>		1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)		1
<i>Tribulus suberosus</i>		1
<i>Triodia epactia</i>		1
<i>Triodia wiseana</i>		1

PHOTO



Site Name: WD01
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 26/06/2018
 GPS Location: GDA94 Zone 50 676365E 7663344N
 Landform Type: Other, Stony plain (other)
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Colluvium (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia synchronicia</i>	0.5	0.1
<i>Cynodon prostratus</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Maireana</i> sp.	0.4	0.1
<i>Portulaca oleracea</i>	0.1	0.1
<i>Ptilotus exaltatus</i>	0.3	0.1
<i>Senna notabilis</i>		
<i>Sida fibulifera</i>	0.2	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Trianthema triquetrum</i>	0.1	0.1
<i>Triodia longiceps</i>	0.5	45

PHOTO



Site Name: WD02
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 26/06/2018
 GPS Location: GDA94 Zone 50 677314E 7661282N
 Landform Type: Plain
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NW
 Soil Type: Clayey Sand
 Soil Colour: Red
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - VG - Very Good
 Disturbance: Ground disturbance (other)
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*
 Lower Stratum 1: *Acacia stellaticeps*
 Lower Stratum 2: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	2	2
<i>Acacia stellaticeps</i>	0.6	4
<i>Aristida holathera</i> var. <i>holathera</i>	0.3	0.1
<i>Bonamia alatisemina</i>		0.1
<i>Bonamia erecta</i>	0.2	0.1
<i>Eragrostis eriopoda</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Pluchea tetranthera</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia epactia</i>	0.2	0.1
<i>Triodia lanigera</i>	0.5	50
<i>Yakirra australiensis</i> var. <i>australiensis</i>	0.1	0.1

PHOTO



Site Name: WD03
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 26/06/2018
 GPS Location: GDA94 Zone 50 675858E 7663069N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Calcrete, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	0.3	0.1
<i>Acacia bivenosa</i>	1	0.3
<i>Acacia inaequilatera</i>	2.5	3.5
<i>Bonamia erecta</i>	0.4	0.3
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Chrysopogon fallax</i>	0.5	0.2
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.2	0.1
<i>Codonocarpus cotinifolius</i>	1.5	0.2
<i>Corchorus parviflorus</i>	0.6	0.5
<i>Corymbia hamersleyana</i>	5.5	7
<i>Eragrostis eriopoda</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.4	0.3
<i>Goodenia microptera</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.5	0.1
<i>Heliotropium chrysocarpum</i>	0.4	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.5	0.1
<i>Indigofera monophylla</i>	0.5	0.1
<i>Ptilotus astrolasius</i>	0.5	0.4
<i>Ptilotus calostachyus</i>	0.8	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.5	0.2
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.5	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	25
<i>Triodia epactia</i>	0.4	20

PHOTO



Site Name: WD04
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 676965E 7660809N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: SW
 Soil Type: Clayey Sand
 Soil Colour: Orange
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	2.5	3.5
<i>Acacia tumida</i> var. <i>pilbarensis</i>	1.2	0.5
<i>Aristida contorta</i>	0.1	0.1
<i>Aristida holathera</i> var. <i>holathera</i>	0.5	0.1
<i>Bonamia media</i>		
<i>Bonamia pannosa</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.7	0.1
<i>Desmodium filiforme</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.5	0.1
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>		0.1
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	0.2	0.1
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.2	0.1
<i>Fimbristylis dichotoma</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Hibiscus leptocladus</i>	0.2	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.5	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Ipomoea muelleri</i>		0.1
<i>Isotropis atropurpurea</i>	0.7	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Pluchea ferdinandi-muelleri</i>	0.5	0.1
<i>Pluchea tetranthera</i>	0.6	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.8	0.1
<i>Rhynchosia minima</i>		0.1
<i>Schizachyrium fragile</i>	0.2	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.2	0.1
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Tephrosia virens</i>	0.9	0.1

<i>Trachymene oleracea</i>	1.2	0.2
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.9	60
<i>Triodia lanigera</i>	0.8	1
<i>Tripogonella loliiformis</i>	0.1	0.1
<i>Triumfetta johnstonii</i>	0.6	0.1
<i>Yakirra australiensis</i> var. <i>australiensis</i>	0.1	0.1
<i>Zornia albiflora</i>	0.1	0.1

PHOTO

Site Name: WD05
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 671365E 7656316N
 Landform Type: Mid Slope
 Slope Class: Steep (23 degrees)
 Aspect: NW
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Ironstone, 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 1 year

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.2	0.3
<i>Cymbopogon ambiguus</i>	0.2	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Eriachne aristidea</i>	0.1	0.1
<i>Eriachne ciliata</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.2
<i>Euphorbia careyi</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Heliotropium cunninghamii</i>	0.2	0.1
<i>Heliotropium pachyphyllum</i>	0.2	0.1
<i>Hibiscus ?leptocladus</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.2
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.2	0.1
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.1	0.1
<i>Trigastrotheca molluginosa</i>	0.1	0.1
<i>Triodia wiseana</i>	0.3	25
<i>Triumfetta propinqua</i>	0.1	0.1

PHOTO



Site Name: WD06
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 676599E 7660402N
 Landform Type: Hillock
 Slope Class: Steep (23 degrees)
 Aspect: NW
 Soil Type: Sandy Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, Ironstone, Quartz (other), >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*
 Mid Stratum 2: *Senna glutinosa* subsp. *glutinosa*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.4	0.2
<i>Acacia inaequilatera</i>	2	1
<i>Bonamia pilbarensis</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Dampiera candidans</i>		
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.6	0.1
<i>Pluchea tetranthera</i>	0.8	0.1
<i>Polygala glaucifolia</i>		
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.5	0.2
<i>Senna symonii</i>	1	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Tribulus suberosus</i>	0.4	0.1
<i>Triodia epactia</i>	0.6	85
<i>Triodia wiseana</i>	0.5	0.5
<i>Triumfetta maconochieana</i>	0.3	0.1

PHOTO



Site Name: WD07
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 671966E 7655873N
 Landform Type: Upper Slope
 Slope Class: Steep (23 degrees)
 Aspect: NW
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Ironstone, 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.7	1
<i>Acacia inaequilatera</i>	1	0.2
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	0.3	0.1
<i>Cyperus hesperius</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.3	0.2
<i>Euphorbia careyi</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.6	0.2
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.5	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1	0.1
<i>Terminalia supranitifolia</i> (P3)	0.8	0.1
<i>Tribulus suberosus</i>	1	0.1
<i>Triodia wiseana</i>	0.5	45
<i>Triumfetta propinqua</i>	0.4	0.1

PHOTO



Site Name: WD08
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 676641E 7660888N
 Landform Type: Other, Low rise (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NW
 Soil Type: Sandy Clay Loam
 Soil Colour: Orange
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia ancistrocarpa*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	1.7	2
<i>Acacia ancistrocarpa x orthocarpa</i>	2	0.1
<i>Acacia inaequilatera</i>	1	0.1
<i>Bonamia aff. pilbarensis</i>		0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>		
<i>Codonocarpus cotinifolius</i>	0.8	0.1
<i>Dampiera candidans</i>	1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Tephrosia clementii</i>	0.2	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia lanigera</i>	0.4	70

PHOTO



Site Name: WD09
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 671875E 7656139N
 Landform Type: Crest
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: W
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Ironstone, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 1 year

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.1	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Corymbia hamersleyana</i>	3	0.5
<i>Dampiera candicans</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.6	5
<i>Heliotropium skeleton</i>		
<i>Indigofera monophylla</i>	0.1	0.2
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1.5	0.1
<i>Oldenlandia crouchiana</i>	0.2	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia brizoides</i>	0.2	7
<i>Triodia epactia</i>	0.1	7
<i>Triodia wiseana</i>	0.3	0.1
<i>Yakirra australiensis</i> var. <i>australiensis</i>	0.1	0.1

PHOTO



Site Name: WD10
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 676986E 7661477N
 Landform Type: Plain
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Sandy Clay
 Soil Colour: Orange
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia ancistrocarpa*, *Acacia bivenosa*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	1.8	0.8
<i>Acacia bivenosa</i>	1.5	3
<i>Acacia inaequilatera</i>	1.4	0.1
<i>Acacia stellaticeps</i>	0.5	1
<i>Bonamia erecta</i>	0.2	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Senna glutinosa</i> subsp. <i>pruinosa</i>		
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia lanigera</i>	0.6	60

PHOTO



Site Name: WD11
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 672173E 7656268N
 Landform Type: Upper Slope
 Slope Class: Steep (23 degrees)
 Aspect: SE
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Metamorphic (other), 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Metamorphic, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 1 year / > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	0.3
<i>Boerhavia gardneri</i>	0.4	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	2.5	0.3
<i>Cymbopogon ambiguus</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.2	0.1
<i>Eriachne ciliata</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	4	1
<i>Euphorbia careyi</i>	0.1	0.1
* <i>Flaveria trinervia</i>	0.3	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	0.2
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.5	0.2
<i>Indigofera monophylla</i>	0.1	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	0.2	0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.6	0.1
<i>Triodia brizoides</i>	0.1	3
<i>Triodia wiseana</i>	0.5	35
<i>Triumfetta maconochieana</i>	0.1	0.1

PHOTO



Site Name: WD12
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 677015E 7661962N
 Landform Type: Plain
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NW
 Soil Type: Sandy Clay
 Soil Colour: Light brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia orthocarpa*
 Lower Stratum 1: *Triodia angusta*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	1.3	0.1
<i>Acacia inaequilatera</i>	1.3	0.1
<i>Acacia orthocarpa</i>	2	0.2
<i>Acacia stellaticeps</i>	0.8	0.1
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.1	0.1
* <i>Cenchrus ciliaris</i>	0.4	0.1
<i>Chrysopogon fallax</i>	1	0.1
<i>Codonocarpus cotinifolius</i>	3	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Corymbia hamersleyana</i>	4	0.3
<i>Euphorbia clementii</i> (P3)	0.2	0.1
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	0.1	0.1
<i>Goodenia microptera</i>	0.3	0.1
<i>Heliotropium tenuifolium</i>	0.1	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Phyllanthus maderaspatensis</i>		
<i>Pluchea ferdinandi-muelleri</i>	0.6	0.1
<i>Pluchea tetranthera</i>	0.5	0.1
<i>Polymeria ambigua</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.2	0.1
<i>Ptilotus axillaris</i>		0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Solanum diversiflorum</i>		
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia angusta</i>	0.7	75
<i>Triodia epactia</i>	0.5	0.1
<i>Triodia wiseana</i>	0.7	0.2

<i>Yakirra australiensis</i> var. <i>australiensis</i>	0.1	0.1
--	-----	-----

PHOTO



Site Name: WD13
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 672481E 7655580N
 Landform Type: Crest
 Slope Class: Moderately Inclined (10 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Ironstone, 2-10% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 1 year

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.4	0.4
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.1	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Dampiera candidans</i>	0.5	1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	4	0.5
<i>Euphorbia careyi</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.5	0.5
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.3	0.1
<i>Heliotropium skeleton</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tephrosia virens</i>	0.3	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.2	20
<i>Triodia wiseana</i>	0.2	2
<i>Triumfetta maconochieana</i>	0.3	0.1
<i>Yakirra australiensis</i> var. <i>australiensis</i>	0.1	0.1

PHOTO



Site Name: WD14
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 676768E 7661888N
 Landform Type: Plain
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NE
 Soil Type: Sandy Clay
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia bivenosa*
 Lower Stratum 1: *Acacia stellaticeps*
 Lower Stratum 2: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	1.5	2
<i>Acacia sphaerostachya</i>	1.3	0.1
<i>Acacia stellaticeps</i>	0.8	20
<i>Bonamia erecta</i>	0.4	0.2
<i>Pluchea tetranthera</i>	0.5	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.8	0.1
<i>Triodia epactia</i>	0.5	0.1
<i>Triodia lanigera</i>	0.8	65

PHOTO



Site Name: WD15
 Site Type: QUADRAT
 Dimensions: 20m x 125m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 672472E 7655360N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Ironstone, <2% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 1 year

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	4	0.3
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.8	10
<i>Cajanus cinereus</i>	0.4	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	1	0.1
<i>Corchorus parviflorus</i>	0.3	8
<i>Cymbopogon ambiguus</i>	0.6	0.1
<i>Dampiera candidans</i>	0.4	0.2
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.3	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	1.5	0.3
<i>Euphorbia careyi</i>	0.2	0.3
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.5	0.2
<i>Heliotropium cunninghamii</i>	0.1	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.5	1
<i>Jasminum didymum</i> subsp. <i>lineare</i>		5
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.5	1.5
<i>Senna notabilis</i>	0.3	0.2
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Tinospora smilacina</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	5
<i>Triodia wiseana</i>	0.4	0.2
<i>Triumfetta maconochieana</i>	0.3	0.1
<i>Triumfetta propinqua</i>	0.3	0.1

PHOTO



Site Name: WD16
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 676807E 7661526N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Sandy Clay
 Soil Colour: Orange
 Rock Outcrop: No bedrock exposed
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia orthocarpa*, *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Triodia epactia*
 Lower Stratum 2: *Chrysopogon fallax*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	1.8	0.2
<i>Acacia inaequilatera</i>	1.8	0.1
<i>Acacia orthocarpa</i>	3.5	45
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3.5	2
<i>Aristida contorta</i>	0.2	0.1
<i>Aristida holathera</i> var. <i>holathera</i>	0.4	0.1
<i>Boerhavia burbridgeana</i>		0.1
<i>Boerhavia coccinea</i>		0.1
<i>Bonamia erecta</i>	0.4	0.1
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cajanus cinereus</i>	0.4	0.2
<i>Cassylia capillaris</i>		0.1
* <i>Cenchrus ciliaris</i>	0.3	0.1
<i>Chrysopogon fallax</i>	0.7	15
<i>Corchorus parviflorus</i>	0.5	0.1
<i>Corymbia hamersleyana</i>	4	1
<i>Cucumis variabilis</i>		0.1
<i>Eragrostis eriopoda</i>	0.5	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.8	0.1
<i>Euphorbia trigonosperma</i>	0.4	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Gossypium australe</i>	1	0.1
<i>Heliotropium tenuifolium</i>	0.2	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.6	0.1
<i>Isotropis atropurpurea</i>	0.5	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>		0.1
<i>Phyllanthus maderaspatensis</i>	0.8	0.1

<i>Pluchea tetranthera</i>	0.4	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polymeria ambigua</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Rhynchosia minima</i>		0.5
<i>Senna notabilis</i>	0.2	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Solanum diversiflorum</i>	0.3	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.6	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1
<i>Tephrosia supina</i>	0.4	0.1
<i>Tinospora smilacina</i>		0.1
<i>Trachymene oleracea</i>	1	0.1
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.2	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia epactia</i>	0.8	70
<i>Triodia lanigera</i>	0.7	0.2
<i>Yakirra australiensis</i> var. <i>australiensis</i>	0.1	0.1

PHOTO

Site Name: WD17
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 671704E 7654292N
 Landform Type: Lower Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: W
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: Dolerite, 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Dolerite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	1
<i>Acacia inaequilatera</i>	3	3
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Dampiera candidans</i>	0.5	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	4	1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	1	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gossypium australe</i>	1	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Indigofera rugosa</i>		
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.5	0.5
<i>Solanum phlomoides</i>	0.5	0.1
<i>Tribulus platypterus</i>	0.5	0.1
<i>Tribulus suberosus</i>	0.8	0.1
<i>Triodia brizoides</i>	0.4	55
<i>Triumfetta maconochieana</i>	0.2	0.1

PHOTO



Site Name: WD18
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 676695E 7661197N
 Landform Type: Plain
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Loamy clay (other)
 Soil Colour: Orange
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	2.2	5
<i>Bonamia aff. pilbarensis</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.1	0.1
<i>Codonocarpus cotinifolius</i>	1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Pluchea ferdinandi-muelleri</i>	0.7	0.1
<i>Pluchea tetranthera</i>	0.5	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.7	70
<i>Triodia lanigera</i>	0.6	0.2

PHOTO



Site Name: WD19
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 27/06/2018
 GPS Location: GDA94 Zone 50 671622E 7654093N
 Landform Type: Other, Low rise (other)
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: WSW
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Dolerite, 2-10% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Dolerite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	2.5
<i>Acacia inaequilatera</i>	2	0.3
<i>Cassytha capillaris</i>		0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	1	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Cymbopogon ambiguus</i>	1.2	0.1
<i>Dampiera candidans</i>	0.2	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.5
<i>Hibiscus coatesii</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Triodia brizoides</i>	0.4	15
<i>Triodia scintillans</i>	0.3	15
<i>Triodia wiseana</i>	0.5	25
<i>Triumfetta maconochieana</i>	0.1	0.1

PHOTO



Site Name: WD20
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 675286E 7659513N
 Landform Type: Crest
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: W
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Quartz (other), 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.6	0.5
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Corymbia hamersleyana</i>	3.5	0.5
<i>Cymbopogon ambiguus</i>	0.6	0.1
<i>Dampiera candidans</i>	0.6	0.1
<i>Eriachne ciliata</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Ficus brachypoda</i>	3	0.5
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	3
<i>Paspalidium tabulatum</i>	0.4	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Triodia epactia</i>	0.6	80
<i>Triumfetta maconochieana</i>	0.7	0.1
<i>Triumfetta propinqua</i>	0.4	0.1

PHOTO



Site Name: WD21
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 674174E 7653998N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: ESE
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone, Metamorphic (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	0.5
<i>Acacia inaequilatera</i>	4.5	4
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Corymbia hamersleyana</i>	2.5	0.5
<i>Dampiera candicans</i>	0.5	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Heliotropium skeleton</i>	0.4	0.1
<i>Ptilotus astrolasius</i>	0.5	0.3
<i>Ptilotus calostachyus</i>	1	0.1
<i>Triodia epactia</i>	0.4	5
<i>Triodia lanigera</i>	0.4	40
<i>Triodia wiseana</i>	0.4	10

PHOTO



Site Name: WD22
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 675707E 7659723N
 Landform Type: Upper Slope
 Slope Class: Precipitous (60 degrees)
 Aspect: NNW
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: Quartz (other), >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Acacia acradenia*, *Gossypium australe*
 Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.4	0.5
<i>Boerhavia gardneri</i>		
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.4	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Eriachne ciliata</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Gossypium australe</i>	1.2	1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.8
<i>Indigofera monophylla</i>	0.3	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Ptilotus incanus</i>	0.2	0.1
<i>Solanum horridum</i>	0.2	0.1
<i>Tephrosia virens</i>	1	0.2
<i>Tribulus suberosus</i>	0.9	0.2
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia wiseana</i>	0.8	80
<i>Triumfetta propinqua</i>	0.6	0.6

PHOTO



Site Name: WD23
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 672995E 7654086N
 Landform Type: Upper Slope
 Slope Class: Steep (23 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Ironstone, 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: (other)
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. Dioicum (A.A. Mitchell PRP 1618)	2	0.5
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.5	0.1
* <i>Aerva javanica</i>	1	0.2
<i>Amaranthus undulatus</i>	0.3	0.1
<i>Cheilanthes brownii</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Corymbia hamersleyana</i>	2	0.5
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.6	0.2
<i>Cyperus hesperius</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	4.5	2
<i>Euphorbia careyi</i>	0.3	0.3
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.2
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.5	0.2
<i>Indigofera monophylla</i>	0.4	0.2
<i>Paspalidium tabulatum</i>	0.4	0.1
<i>Salsola australis</i>	0.4	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.5	1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Terminalia circumalata</i>	3	1
<i>Tribulus suberosus</i>	0.2	0.1
<i>Triodia brizoides</i>	0.5	30
<i>Triodia epactia</i>	0.5	15
<i>Triodia wiseana</i>	0.5	15
<i>Triumfetta propinqua</i>	0.2	0.1

PHOTO



Site Name: WD24
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 675694E 7659827N
 Landform Type: Lower Slope
 Slope Class: Steep (23 degrees)
 Aspect: NNW
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Acacia ancistrocarpa*
 Lower Stratum 1: *Triodia brizoides*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.2	0.6
<i>Acacia ancistrocarpa</i>	1.4	0.3
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Dampiera candidans</i>	0.5	0.1
<i>Gossypium australe</i>	0.4	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>		
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1
<i>Indigofera monophylla</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.5	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Senna symonii</i>	0.6	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	0.1
<i>Tribulus suberosus</i>	0.9	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.6	80
<i>Triodia epactia</i>	0.7	0.2
<i>Triodia wiseana</i>	0.6	0.1

PHOTO



Site Name: WD25
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 670696E 7653373N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Colluvium (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Exotic Weeds - Some weeds, Pig/Animal Disturbance - Cattle activity
 Fire: ~ 2 years / > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> aff. <i>hannii</i>	0.4	0.1
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	2.5	0.2
<i>Acacia ancistrocarpa</i>	2.5	0.4
<i>Acacia bivenosa</i>	2.5	0.3
<i>Acacia coriacea</i> subsp. <i>pendens</i>	3.5	3
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2.5	6
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	3
* <i>Aerva javanica</i>	0.1	0.1
<i>Boerhavia burbridgeana</i>	0.1	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cajanus cinereus</i>	0.8	0.3
<i>Cassutha capillaris</i>		0.3
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.5	3
<i>Cymbopogon ambiguus</i>	0.6	4
<i>Enneapogon lindleyanus</i>	0.5	0.2
<i>Eriachne tenuiculmis</i>	0.5	8
<i>Eucalyptus victrix</i>	10	15
<i>Euphorbia careyi</i>	0.2	0.2
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	1	0.1
<i>Euphorbia</i> ? <i>trigonosperma</i>	0.1	0.1
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	2.5	1
<i>Gossypium australe</i>	1	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.7	0.2
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	1
<i>Hybanthus aurantiacus</i>	0.6	0.1
<i>Indigofera monophylla</i>	0.4	1
<i>Melaleuca glomerata</i>	1	2
<i>Melaleuca linophylla</i>	2.5	3
<i>Notoleptopus decaisnei</i>	0.2	0.1
<i>Phyllanthus maderaspatensis</i>	0.5	0.3
<i>Polymeria ambigua</i>	0.2	0.1
<i>Ptilotus</i> ? <i>exaltatus</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Swainsona formosa</i>	0.3	0.1

<i>Tephrosia rosea</i> var. <i>clementii</i>	0.5	0.2
<i>Themeda triandra</i>	0.5	0.1
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.2	0.1
<i>Triodia epactia</i>	0.5	5
<i>Triodia wiseana</i>	0.6	2
<i>Triumfetta clementii</i>	0.1	0.1
<i>Triumfetta maconochieana</i>	0.5	0.1

PHOTO

Site Name: WD26
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 675815E 7660146N
 Landform Type: Simple Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: NE
 Soil Type: Sandy Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia ancistrocarpa*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2	20
<i>Bonamia aff. pilbarensis</i>	0.1	0.1
<i>Codonocarpus cotinifolius</i>	1.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia epactia</i>	0.6	0.1
<i>Triodia lanigera</i>	0.5	50

PHOTO



Site Name: WD27
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 670135E 7653609N
 Landform Type: Upper Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: E
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Banded Ironstone (other), 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm, >2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years / > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.3	0.5
<i>Amaranthus undulatus</i>	0.2	0.1
<i>Aristida burbridgeae</i>	0.5	0.3
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.6	4
<i>Cucumis variabilis</i>		0.2
<i>Cymbopogon ambiguus</i>	0.6	2
<i>Cyperus hesperius</i>	0.3	0.1
<i>Dampiera candidans</i>	0.6	1
<i>Eriachne mucronata</i>	0.3	1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.3	0.3
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	2.5	0.5
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gossypium australe</i>	1	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.3	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	2.5	0.2
<i>Hibiscus goldsworthii</i>	0.5	0.1
<i>Indigofera monophylla</i>	0.3	0.2
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium tabulatum</i>	0.4	0.2
<i>Ptilotus astrolasius</i>		
<i>Ptilotus calostachyus</i>	1	0.1
<i>Ptilotus incanus</i>	0.3	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.3	0.4
<i>Senna notabilis</i>	0.2	0.1
<i>Solanum horridum</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Terminalia circumalata</i>	4.5	4
<i>Tinospora smilacina</i>		0.1
<i>Tribulus platypterus</i>	0.5	0.1
<i>Triodia wiseana</i>	0.5	25
<i>Triumfetta propinqua</i>	0.3	3

PHOTO



Site Name: WD28
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 28/06/2018
 GPS Location: GDA94 Zone 50 676522E 7661016N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NE
 Soil Type: Clayey Sand
 Soil Colour: Orange
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Granite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia orthocarpa*, *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Triodia epactia*
 Lower Stratum 2: *Chrysopogon fallax*, *Paraneurachne muelleri*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	2.5	2
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	3	0.2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3.5	27
<i>Aristida holathera</i> var. <i>holathera</i>	0.2	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cajanus cinereus</i>	0.7	0.1
* <i>Cenchrus ciliaris</i>	0.9	0.4
* <i>Cenchrus setiger</i>	0.8	0.1
<i>Chrysopogon fallax</i>	0.6	3
<i>Corchorus parviflorus</i>	0.5	0.1
<i>Corymbia hamersleyana</i>	4.5	2
<i>Dampiera candidans</i>	0.5	0.1
<i>Eragrostis cumingii</i>	0.3	0.1
<i>Eragrostis eriopoda</i>	0.4	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eriachne tenuiculmis</i>	0.5	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.1	0.1
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	0.4	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Gossypium australe</i>	0.8	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.1
<i>Hibiscus leptocladus</i>	0.1	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.6	0.2
<i>Hybanthus aurantiacus</i>	0.4	0.2
<i>Indigofera monophylla</i>	0.6	0.1
<i>Paraneurachne muelleri</i>	1	1
<i>Paspalidium rarum</i>	0.2	0.1
<i>Phyllanthus maderaspatensis</i>	1	0.1
<i>Polycarpha holtzei</i>	0.1	0.1
<i>Polymeria ambigua</i>		0.1

<i>Pterocaulon sphacelatum</i>		
<i>Ptilotus astrolasius</i>	0.6	0.1
<i>Ptilotus axillaris</i>		0.1
<i>Ptilotus calostachyus</i>	0.8	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Ptilotus fusiformis</i>	0.5	0.1
<i>Salsola australis</i>	0.5	0.1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	1	0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Sida clementii</i>	0.9	0.1
<i>Solanum diversiflorum</i>	0.5	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Swainsona formosa</i>	0.4	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.2	0.1
<i>Tinospora smilacina</i>		0.1
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.7	0.1
<i>Triodia epactia</i>	0.8	65
<i>Triodia lanigera</i>	0.5	0.1
<i>Waltheria indica</i>	0.2	0.1
<i>Yakirra australiensis</i> var. <i>australiensis</i>	0.1	0.1

PHOTO

Site Name: WD29
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 669865E 7653424N
 Landform Type: Other, Outwash plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: W
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years / > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.6	0.2
<i>Acacia inaequilatera</i>	2	3
<i>Boerhavia gardneri</i>	0.1	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.2	0.8
<i>Corymbia hamersleyana</i>	5	1
<i>Dampiera candicans</i>	0.4	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia microptera</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.3	3
<i>Heliotropium pachyphyllum</i>	0.3	0.1
<i>Heliotropium skeleton</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.5	15
<i>Ptilotus calostachyus</i>	1	0.1
<i>Solanum diversiflorum</i>	0.2	0.1
<i>Tephrosia clementii</i>	0.1	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia brizoides</i>	0.4	20
<i>Triodia scintillans</i>	0.3	3
<i>Triodia wiseana</i>	0.3	0.2

PHOTO



Site Name: WD30
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/07/2018
 GPS Location: GDA94 Zone 50 676413E 7660952N
 Landform Type: Plain
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	1.9	6
<i>Bonamia aff. pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Tephrosia clementii</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	0.1
<i>Triodia lanigera</i>	0.5	85

PHOTO



Site Name: WD31
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 669634E 7653542N
 Landform Type: Ridge
 Slope Class: Steep (23 degrees)
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Dolerite, Shale (other), 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Dolerite, Shale (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	2.5	0.3
* <i>Aerva javanica</i>	0.5	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.2	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.8	2
<i>Crotalaria novae-hollandiae</i> subsp. <i>novae-hollandiae</i>	0.2	0.1
<i>Cullen leucochaites</i>	2	2
<i>Cymbopogon ambiguus</i>	0.6	8
<i>Cyperus hesperius</i>	0.3	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.2	0.1
<i>Enneapogon lindleyanus</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.3	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.2	1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.3	0.1
<i>Gossypium australe</i>	1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.3	0.1
<i>Hibiscus coatesii</i>	0.4	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Indigofera rugosa</i>	0.6	0.3
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium tabulatum</i>	0.4	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.3	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Ptilotus exaltatus</i>	0.3	0.1
<i>Ptilotus fusiformis</i>	0.3	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	0.7	0.1
<i>Solanum diversiflorum</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Swainsona formosa</i>	0.4	0.1
<i>Tephrosia densa</i>	0.3	0.1

<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tribulus suberosus</i>	0.5	0.2
<i>Triodia brizoides</i>	0.3	5
<i>Triodia scintillans</i>	0.3	0.1
<i>Triodia wiseana</i>	0.3	15
<i>Triumfetta maconochieana</i>	0.2	0.1
<i>Triumfetta propinqua</i>	0.3	0.2

PHOTO

Site Name: WD32
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 28/07/2018
 GPS Location: GDA94 Zone 50 674894E 7659399N
 Landform Type: Mid Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: N
 Soil Type: Sandy Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, Quartz (other), <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*
 Mid Stratum 2: *Acacia acradenia*, *Acacia ancistrocarpa*
 Lower Stratum 1: *Triodia brizoides*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.3	0.5
<i>Acacia ancistrocarpa</i>	1.4	0.2
<i>Acacia inaequilatera</i>	3	0.5
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	1	0.1
<i>Tribulus suberosus</i>	0.3	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.5	75
<i>Triodia epactia</i>	0.3	0.1
<i>Triodia wiseana</i>	0.6	2

PHOTO



Site Name: WD33
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 669486E 7653745N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	1	8
<i>Aristida contorta</i>	0.2	0.2
<i>Aristida holathera</i> var. <i>holathera</i>	0.4	3
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.6	4
<i>Eriachne aristidea</i>	0.2	0.1
<i>Eriachne ciliata</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.3	0.1
<i>Fimbristylis dichotoma</i>	0.2	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Heliotropium cunninghamii</i>	0.2	0.1
<i>Heliotropium tenuifolium</i>	0.2	0.1
<i>Hibiscus coatesii</i>	1	0.1
<i>Hibiscus leptocladus</i>	0.6	0.2
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.4	0.5
<i>Indigofera rugosa</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	1	0.1
<i>Ptilotus ?exaltatus</i>	0.1	0.1
<i>Ptilotus incanus</i>	0.4	0.1
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1
<i>Senna notabilis</i>	0.2	0.2
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Solanum phlomoides</i>	0.3	0.4
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	0.1

<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia brizoides</i>	0.3	15
<i>Triodia epactia</i>	0.3	0.2
<i>Triodia wiseana</i>	0.3	0.2
<i>Yakirra australiensis</i> var. <i>australiensis</i>	0.1	0.1

PHOTO

Site Name: WD34
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 674005E 7656557N
 Landform Type: Mid Slope
 Slope Class: Steep (23 degrees)
 Aspect: N
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - VG - Very Good
 Disturbance: Exotic Weeds - Some weeds, Dust (other) - Significant dust
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Indigofera monophylla*
 Lower Stratum 2: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.6	0.8
* <i>Aerva javanica</i>	0.5	0.1
<i>Boerhavia gardneri</i>	0.3	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.3	0.1
<i>Cyperus hesperius</i>	0.3	0.1
<i>Enneapogon lindleyanus</i>	0.4	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.3	1
<i>Paspalidium tabulatum</i>	0.3	0.1
<i>Pluchea ferdinandi-muelleri</i>	0.6	0.1
<i>Pterocaulon sphaeranthoides</i>	0.3	0.1
<i>Solanum horridum</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Tinospora smilacina</i>		0.1
<i>Tribulus hirsutus</i>	0.2	0.1
<i>Triodia epactia</i>	0.5	45
<i>Triodia wiseana</i>	0.7	45
<i>Triumfetta propinqua</i>	0.4	0.1

PHOTO



Site Name: WD35
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 669878E 7654237N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Shale (other), <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Calcrete, Quartz, Shale (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. Dioicum (A.A. Mitchell PRP 1618)	0.6	0.1
<i>Acacia acradenia</i>	0.2	0.2
<i>Acacia inaequilatera</i>	3	2
<i>Boerhavia gardneri</i>	0.4	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.2	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Cleome viscosa</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.5	25
<i>Corymbia hamersleyana</i>		
<i>Cymbopogon ambiguus</i>	0.5	0.1
<i>Dampiera candidans</i>	0.2	0.1
<i>Enneapogon caeruleus</i>	0.1	0.1
<i>Eriachne aristidea</i>	0.3	0.1
<i>Eriachne ciliata</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Heliotropium cunninghamii</i>	0.1	0.1
<i>Hibiscus coatesii</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Indigofera rugosa</i>	0.4	0.2
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Tephrosia clementii</i>	0.1	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	0.2
<i>Triodia scintillans</i>	0.2	15
<i>Triodia wiseana</i>	0.3	10

PHOTO



Site Name: WD36
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 674162E 7656441N
 Landform Type: Upper Slope
 Slope Class: Precipitous (60 degrees)
 Aspect: NW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Ironstone, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Terminalia circumalata*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. Dioicum (A.A. Mitchell PRP 1618)	0.6	0.1
<i>Acacia acradenia</i>	1.4	5
<i>Acacia coriacea</i> subsp. <i>pendens</i>	1	0.1
* <i>Aerva javanica</i>	0.1	0.1
<i>Boerhavia burbridgeana</i>		0.1
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Cleome viscosa</i>	0.8	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	1.5	0.1
<i>Corymbia hamersleyana</i>	2	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.4	0.1
<i>Dampiera candidans</i>	0.3	0.1
<i>Enneapogon caeruleus</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>		
<i>Gossypium australe</i>	1.5	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.7	0.1
<i>Hibiscus coatesii</i>	0.3	0.1
<i>Hibiscus goldsworthii</i>	0.5	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	0.1	0.1
<i>Paspalidium tabulatum</i>	0.4	0.1
* <i>Passiflora foetida</i> var. <i>hispidula</i>		0.1
<i>Ptilotus incanus</i>	0.2	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.8	0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Terminalia circumalata</i>	3.5	1.5
<i>Terminalia supranitifolia</i> (P3)	1.8	0.1
<i>Tinospora smilacina</i>		0.1

<i>Triodia epactia</i>	0.4	40
<i>Triodia wiseana</i>	0.5	30
<i>Triumfetta propinqua</i>	0.4	0.1

PHOTO

Site Name: WD37
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 669822E 7654602N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Granite, 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Dolerite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years / > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.3	0.1
<i>Acacia orthocarpa</i>	1.5	7
<i>Aristida holathera</i> var. <i>holathera</i>	0.4	2
<i>Boerhavia gardneri</i>	0.5	0.1
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.4	2
<i>Corchorus parviflorus</i>	0.6	30
<i>Corymbia hamersleyana</i>	0.2	0.1
<i>Cullen leucochaites</i>	0.2	0.1
<i>Cymbopogon ambiguus</i>	0.7	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dampiera candicans</i>	0.4	3
<i>Eriachne mucronata</i>	0.5	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	1.2	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia muelleriana</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	0.4	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.5	0.1
<i>Heliotropium cunninghamii</i>	0.2	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	0.2
<i>Indigofera monophylla</i>	0.3	0.2
<i>Mitrasacme connata</i>	0.1	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.1	0.1
<i>Polymeria ambigua</i>	0.1	0.1
<i>Portulaca oleracea</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Schizachyrium fragile</i>	0.2	0.1
<i>Senna notabilis</i>	0.2	0.1

<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Tephrosia virens</i>	0.4	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.3	10
<i>Triodia epactia</i>	0.3	3
<i>Tripogonella loliiformis</i>	0.1	0.1
<i>Triumfetta clementii</i>	0.2	0.1
<i>Triumfetta propinqua</i>	0.5	0.1

PHOTO

Site Name: WD38
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 674402E 7657466N
 Landform Type: Crest
 Slope Class: Steep (23 degrees)
 Aspect: E
 Soil Type: Sandy Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Gossypium australe*, *Grevillea pyramidalis* subsp. *leucadendron*, *Grevillea wickhamii* subsp. *hispidula*, *Hakea lorea* subsp. *lorea*
 Lower Stratum 1: *Corchorus parviflorus*, *Indigofera monophylla*
 Lower Stratum 2: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Amaranthus undulatus</i>	0.2	0.1
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Cassutha capillaris</i>		0.1
<i>Corchorus parviflorus</i>	0.4	0.2
<i>Cucumis variabilis</i>		0.1
<i>Cullen leucochaites</i>		
<i>Cymbopogon ambiguus</i>	0.3	0.1
<i>Cyperus hesperius</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Gossypium australe</i>	1.2	0.2
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.5	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.6	0.1
<i>Hibiscus coatesii</i>	0.5	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.4	0.4
<i>Indigofera rugosa</i>		
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Ptilotus incanus</i>	0.2	0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Tribulus suberosus</i>	0.5	0.1
<i>Triodia wiseana</i>	0.3	30
<i>Triumfetta propinqua</i>	0.4	0.1

PHOTO



Site Name: WD39
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 670352E 7655576N
 Landform Type: Other, Stony outwash plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NW
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone, Metamorphic (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.6	0.3
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Corymbia hamersleyana</i>	2.5	0.2
<i>Dampiera candidans</i>	0.5	0.5
<i>Eriachne ciliata</i>	0.1	0.1
<i>Eriachne obtusa</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.5	0.2
<i>Hakea lorea</i> subsp. <i>lorea</i>	2	0.1
<i>Heliotropium cunninghamii</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	1.5	0.3
<i>Senna venusta</i>		
<i>Solanum phlomoides</i>	0.3	0.1
<i>Tephrosia clementii</i>	0.1	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia brizoides</i>	0.3	15

PHOTO



Site Name: WD40
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 674945E 7657380N
 Landform Type: Lower Slope
 Slope Class: Steep (23 degrees)
 Aspect: NW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3-4 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*
 Mid Stratum 2: *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	0.5
<i>Acacia inaequilatera</i>	2.5	0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cyperus hesperius</i>	0.3	0.1
<i>Dampiera candidans</i>	0.4	0.5
<i>Eriachne ciliata</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.6	0.3
<i>Indigofera monophylla</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Tephrosia virens</i>	1.3	0.1
<i>Tribulus suberosus</i>	0.3	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia epactia</i>	0.4	60
<i>Triodia wiseana</i>	0.4	10
<i>Triumfetta propinqua</i>	0.7	0.1

PHOTO



Site Name: WD41
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 670396E 7655177N
 Landform Type: Upper Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: W
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Metamorphic (other), 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Dolerite, Metamorphic, Shale (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	0.5
<i>Cucumis variabilis</i>	0.1	0.1
<i>Cullen leucochaites</i>	0.3	0.1
<i>Cymbopogon ambiguus</i>	0.6	0.2
<i>Cyperus hesperius</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.4
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus ?auriculifolius</i>	0.1	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Terminalia circumalata</i>	3	1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.4	0.1
<i>Triodia wiseana</i>	0.6	45
<i>Triumfetta clementii</i>	0.3	0.3

PHOTO



Site Name: WD42
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 674928E 7657087N
 Landform Type: Crest
 Slope Class: Precipitous (60 degrees)
 Aspect: N
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Granite, Ironstone, Quartz (other), 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*, *Eucalyptus leucophloia* subsp. *leucophloia*
 Mid Stratum 1: *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Corymbia hamersleyana</i>	2	0.1
<i>Cymbopogon ambiguus</i>	0.3	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dampiera candidans</i>	0.4	0.5
<i>Enneapogon lindleyanus</i>	0.1	0.1
<i>Eriachne ciliata</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	4	0.3
<i>Euphorbia careyi</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Gossypium australe</i>	1.5	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.4	0.2
<i>Hakea lorea</i> subsp. <i>lorea</i>	1	0.1
<i>Heliotropium pachyphyllum</i>	0.4	0.1
<i>Hibiscus coatesii</i>	0.5	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>		0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Peripleura virgata</i>	0.3	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.5	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.8	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Tinospora smilacina</i>		0.1

<i>Tribulus suberosus</i>	0.5	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	10
<i>Triodia wiseana</i>	0.3	40
<i>Triumfetta maconochieana</i>	0.2	0.1
<i>Triumfetta propinqua</i>	0.6	0.1

PHOTO

Site Name: WD43
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 670542E 7656348N
 Landform Type: Crest
 Slope Class: Very Steep (37 degrees)
 Aspect: W
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Metamorphic (other), 20-50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Metamorphic (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.4	0.5
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Cymbopogon ambiguus</i>	0.5	0.2
<i>Cyperus hesperius</i>	0.3	2
<i>Eriachne ciliata</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.3
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.3	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Gossypium australe</i>	0.7	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.6	1
<i>Oldenlandia crouchiana</i>	0.2	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	1.3	0.1
<i>Ptilotus exaltatus</i>	0.4	0.1
<i>Ptilotus incanus</i>	0.5	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.5	0.2
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Tribulus suberosus</i>	1.3	3
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia wiseana</i>	0.5	20
<i>Triumfetta maconochieana</i>	0.5	0.1
<i>Triumfetta propinqua</i>	0.5	2

PHOTO



Site Name: WD44
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 674656E 7658575N
 Landform Type: Other, Low rise (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: W
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Dolerite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Dolerite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia inaequilatera*
 Lower Stratum 1: *Triodia scintillans*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. Dioicum (A.A. Mitchell PRP 1618)	0.3	0.1
<i>Acacia inaequilatera</i>	2.5	2.5
<i>Boerhavia gardneri</i>	0.3	0.1
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.2	0.1
<i>Cassytha capillaris</i>		0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Corymbia hamersleyana</i>	4	2
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	0.1	0.1
<i>Hybanthus aurantiacus</i>	0.8	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Salsola australis</i>	0.4	0.1
<i>Senna notabilis</i>	0.3	0.1
<i>Swainsona formosa</i>	0.6	0.1
<i>Triodia scintillans</i>	0.3	90
<i>Triodia wiseana</i>	0.4	1

PHOTO



Site Name: WD45
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 670242E 7656332N
 Landform Type: Lower Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: SW
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Shale (other), 2-10% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Dolerite, Metamorphic, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.8	2
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.5	0.2
<i>Cullen leucochaites</i>	1.3	0.1
<i>Dampiera candicans</i>	0.5	3
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.3
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.5	6
<i>Indigofera monophylla</i>	0.3	0.3
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.2	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.8	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tephrosia virens</i>	1	0.1
<i>Tribulus suberosus</i>	0.6	0.1
<i>Triodia brizoides</i>	0.4	20
<i>Triodia wiseana</i>	0.5	0.2

PHOTO



Site Name: WD46
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 29/06/2018
 GPS Location: GDA94 Zone 50 674947E 7658920N
 Landform Type: Hillock
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: E
 Soil Type: Sandy Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	2	2
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.4	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Triodia epactia</i>	0.4	2
<i>Triodia wiseana</i>	0.6	83

PHOTO



Site Name: WD47
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 670127E 7656414N
 Landform Type: Ridge
 Slope Class: Very Steep (37 degrees)
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Dolerite, 20-50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Dolerite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.2	0.1
* <i>Aerva javanica</i>	0.5	0.1
<i>Amaranthus undulatus</i>	0.3	0.1
<i>Boerhavia gardneri</i>	0.5	0.1
<i>Cassytha capillaris</i>		0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.7	0.1
<i>Corchorus parviflorus</i>	0.5	0.2
<i>Cymbopogon ambiguus</i>	0.5	4
<i>Cyperus hesperius</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.3	0.3
<i>Euphorbia careyi</i>	0.3	2
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gossypium australe</i>	1.8	2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.3	0.1
<i>Hibiscus leptocladus</i>	0.2	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>		0.1
<i>Nicotiana benthamiana</i>	0.1	0.1
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.2	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.2
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.5	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Terminalia supranitifolia</i> (P3)	2.5	0.3
<i>Tinospora smilacina</i>		0.1
<i>Tribulus suberosus</i>	1	1
<i>Trichosanthes cucumerina</i>		0.1
<i>Triodia brizoides</i>	0.4	0.5
<i>Triodia wiseana</i>	0.5	20
<i>Triumfetta propinqua</i>	0.5	0.2

PHOTO



Site Name: WD48
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 675107E 7657788N
 Landform Type: Other, Low rise (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: SW
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia inaequilatera*
 Lower Stratum 1: *Triodia scintillans*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	2.5	1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Corymbia hamersleyana</i>	3	0.2
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Triodia scintillans</i>	0.3	90
<i>Triodia wiseana</i>	0.4	2

PHOTO

Site Name: WD49
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 669919E 7656125N
 Landform Type: Other, Stony plain (other)
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Metamorphic, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 2 years / > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.4	0.2
<i>Acacia inaequilatera</i>	3	4
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	3
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.5	0.3
<i>Corchorus parviflorus</i>	0.5	0.5
<i>Dampiera candidans</i>	0.5	0.3
<i>Eriachne obtusa</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia forrestii</i>	0.3	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.5	0.3
<i>Paraneurachne muelleri</i>	0.4	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.5	0.2
<i>Ptilotus ?auriculifolius</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	1	0.2
<i>Senna notabilis</i>	0.1	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.5	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Tephrosia clementii</i>	0.1	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.5	30
<i>Triodia epactia</i>	0.5	5

PHOTO



Site Name: WD50
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 674916E 7658464N
 Landform Type: Mid Slope
 Slope Class: Steep (23 degrees)
 Aspect: N
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Granite, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*
 Lower Stratum 1: *Triodia epactia*, *Triodia scintillans*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	3.5	2.5
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Triodia epactia</i>	0.5	70
<i>Triodia scintillans</i>	0.3	2
<i>Triodia wiseana</i>	0.6	20

PHOTO



Site Name: WD51
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 673695E 7661318N
 Landform Type: Other, Stony plain (other)
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Dolerite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	3	12
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3.5	3
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	1.8	0.2
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Corymbia hamersleyana</i>	3.5	1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.3
<i>Indigofera monophylla</i>	0.6	0.2
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	1	0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.4	40
<i>Triodia epactia</i>	0.4	20
<i>Triodia lanigera</i>	0.4	5

PHOTO



Site Name: WD52
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 674821E 7658360N
 Landform Type: Upper Slope
 Slope Class: Steep (23 degrees)
 Aspect: N
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Dolerite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Dolerite, Calcrete, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*
 Lower Stratum 1: *Triodia brizoides*, *Triodia scintillans*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	3	2
<i>Boerhavia gardneri</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.3	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Triodia brizoides</i>	0.3	1
<i>Triodia epactia</i>	0.4	0.2
<i>Triodia scintillans</i>	0.3	70
<i>Triodia wiseana</i>	0.4	20

PHOTO



Site Name: WD53
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 674145E 7661280N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Sandy Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	3	8
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	3
<i>Aristida holathera</i> var. <i>holathera</i>	0.5	0.1
<i>Bonamia erecta</i>	0.5	4
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.8	0.1
<i>Eragrostis eriopoda</i>	0.3	0.2
<i>Eriachne mucronata</i>	0.4	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.5
<i>Halgania solanacea</i> var. <i>solanacea</i> ms		
<i>Indigofera monophylla</i>	0.4	0.8
<i>Paraneurachne muelleri</i>	0.4	0.5
<i>Ptilotus astrolasius</i>	0.6	0.2
<i>Ptilotus calostachyus</i>	0.8	0.2
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia epactia</i>	0.5	2
<i>Triodia lanigera</i>	0.8	48

PHOTO



Site Name: WD54
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 675087E 7656669N
 Landform Type: Upper Slope
 Slope Class: Precipitous (60 degrees)
 Aspect: NW
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Ironstone, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - G - Good
 Disturbance: Exotic Weeds - Significant weed cover (*Aerva javanica*)
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: **Aerva javanica*, *Corchorus parviflorus*, *Indigofera monophylla*
 Lower Stratum 2: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. Dioicum (A.A. Mitchell PRP 1618)	0.4	0.1
<i>Acacia acradenia</i>	1.4	1
* <i>Aerva javanica</i>	0.6	20
<i>Boerhavia gardneri</i>	0.3	0.1
* <i>Cenchrus ciliaris</i>	0.3	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	1.7	0.1
<i>Corchorus parviflorus</i>	0.6	10
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.5	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Enneapogon caeruleus</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gossypium australe</i>	1.2	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1.5	0.1
<i>Indigofera monophylla</i>	0.5	1
<i>Jasminum didymum</i> subsp. <i>lineare</i>		0.1
<i>Notoleptopus decaisnei</i>	0.4	0.1
<i>Paspalidium tabulatum</i>	0.5	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.2	0.1
<i>Solanum horridum</i>	0.2	0.1
<i>Tinospora smilacina</i>		0.1
<i>Tribulus suberosus</i>	0.4	0.1
<i>Triodia epactia</i>	0.3	0.1
<i>Triodia wiseana</i>	0.7	40
<i>Triumfetta propinqua</i>	0.2	0.1

PHOTO



Site Name: WD55
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 674553E 7661325N
 Landform Type: Other, Stony plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Metamorphic, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	5
<i>Cassytha capillaris</i>		0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.4	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.5
<i>Solanum phlomoides</i>	0.5	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	2
<i>Triodia lanigera</i>	0.7	8
<i>Triodia wiseana</i>	0.7	40

PHOTO

Site Name: WD56
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 674821E 7656536N
 Landform Type: Mid Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: S
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Senna glutinosa* subsp. *glutinosa*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	0.2
* <i>Aerva javanica</i>	0.5	0.1
<i>Boerhavia gardneri</i>	0.3	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Cymbopogon ambiguus</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.4	0.2
<i>Euphorbia careyi</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	1	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.2	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.4	0.1
<i>Triodia epactia</i>	0.4	0.5
<i>Triodia wiseana</i>	0.6	70
<i>Triumfetta propinqua</i>	0.4	0.1

PHOTO



Site Name: WD57
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675036E 7662111N
 Landform Type: Other, Stony plain (other)
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	3	9
<i>Acacia inaequilatera</i>	3	1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	5
<i>Aristida holathera</i> var. <i>holathera</i>	0.5	0.5
<i>Bonamia erecta</i>	0.3	0.3
<i>Corchorus parviflorus</i>	0.6	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia</i> ? <i>trigonosperma</i>	0.4	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.5
<i>Hakea lorea</i> subsp. <i>lorea</i>	2	0.2
<i>Indigofera monophylla</i>	0.5	1
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Senna notabilis</i>	0.4	0.1
<i>Sida arenicola</i>	1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	35
<i>Triodia lanigera</i>	0.5	25

PHOTO



Site Name: WD58
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 674468E 7655689N
 Landform Type: Crest
 Slope Class: Precipitous (60 degrees)
 Aspect: SE
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Ironstone, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus leucophloia* subsp. *leucophloia*
 Mid Stratum 1: *Acacia acradenia*, *Hakea lorea* subsp. *lorea*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.3	0.5
<i>Acacia inaequilatera</i>	1.2	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	2.5	0.5
<i>Euphorbia careyi</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.4	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Peripleura virgata</i>	0.1	0.1
<i>Pluchea tetranthera</i>	0.5	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Ptilotus polystachyus</i>	0.2	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1	0.1
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.7	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	20
<i>Triodia wiseana</i>	0.4	40

PHOTO



Site Name: WD59
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675360E 7662097N
 Landform Type: Other, Stony plain (other)
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Calcrete, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.5	0.5
<i>Acacia inaequilatera</i>	3	3
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Corymbia hamersleyana</i>	4.5	1.5
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.3
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.5	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	40
<i>Triodia epactia</i>	0.5	10
<i>Triodia wiseana</i>	0.4	0.2

PHOTO



Site Name: WD60
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 30/06/2018
 GPS Location: GDA94 Zone 50 674623E 7655046N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: SE
 Soil Type: Sandy Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Quartz (other), <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3-4 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia inaequilatera*
 Lower Stratum 1: *Acacia spondylophylla*
 Lower Stratum 2: *Triodia epactia*, *Triodia scintillans*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.5	0.1
<i>Acacia inaequilatera</i>	1.4	0.2
<i>Acacia spondylophylla</i>	0.5	25
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Codonocarpus cotinifolius</i>	1.5	0.1
<i>Corchorus parviflorus</i>	0.5	0.1
<i>Corymbia hamersleyana</i>	5	0.5
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.7	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Hibiscus coatesii</i>	0.7	0.1
<i>Ptilotus astrolasius</i>	0.5	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1	0.1
<i>Senna glutinosa</i> subsp. <i>pruinosa</i>	1.2	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tribulus platypterus</i>	0.5	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	3
<i>Triodia scintillans</i>	0.2	25
<i>Triodia wiseana</i>	0.4	25

PHOTO



Site Name: WD61
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675825E 7662201N
 Landform Type: Other, Stony plain (other)
 Slope Class: Level (0 degrees)
 Soil Type: Sandy Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2	4
<i>Acacia bivenosa</i>	2	4
<i>Acacia inaequilatera</i>	3	2
<i>Acacia sphaerostachya</i>	1	0.3
<i>Acacia stellaticeps</i>	1	12
<i>Bonamia erecta</i>	0.4	0.2
<i>Cassutha capillaris</i>		0.1
<i>Triodia epactia</i>	0.5	0.5
<i>Triodia lanigera</i>	0.6	50

PHOTO

Site Name: WD62
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 674785E 7654254N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: SE
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3-4 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*, *Acacia orthocarpa*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Acacia spondylophylla*
 Lower Stratum 2: *Triodia brizoides*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.3	0.1
<i>Acacia inaequilatera</i>	1	0.2
<i>Acacia orthocarpa</i>	1.4	2
<i>Acacia spondylophylla</i>	0.5	4
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.1	0.1
<i>Codonocarpus cotinifolius</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.6	0.2
<i>Dodonaea coriacea</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.2	0.2
<i>Indigofera monophylla</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.8	0.5
<i>Senna symonii</i>	0.4	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Tephrosia clementii</i>	0.1	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.2	30
<i>Triodia epactia</i>	0.3	0.1
<i>Triodia scintillans</i>	0.2	2
<i>Triodia wiseana</i>	0.3	3

PHOTO



Site Name: WD63
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 676034E 7662982N
 Landform Type: Other, Flat/Minor drainage line (other)
 Slope Class: Level (0 degrees)
 Soil Type: Sandy Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2.5	5
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2	0.1
<i>Acacia stellaticeps</i>	0.4	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	20
<i>Aristida holathera</i> var. <i>holathera</i>	0.4	0.1
<i>Bonamia alatisemina</i>		0.1
<i>Bonamia erecta</i>	0.4	0.5
<i>Cajanus cinereus</i>	1.8	0.2
<i>Cassytha capillaris</i>		0.2
<i>Chrysopogon fallax</i>	0.6	5
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.4	0.1
<i>Corchorus parviflorus</i>	1	1.5
<i>Corymbia hamersleyana</i>	5.5	6
<i>Dampiera candicans</i>	0.5	0.5
<i>Eriachne mucronata</i>	0.4	0.1
<i>Eulalia aurea</i>	0.5	0.1
<i>Goodenia microptera</i>	0.4	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	5
<i>Heliotropium pachyphyllum</i>	0.4	0.5
<i>Hybanthus aurantiacus</i>	0.6	0.5
<i>Indigofera monophylla</i>	0.4	0.1
<i>Isotropis atropurpurea</i>	0.6	0.1
<i>Paraneurachne muelleri</i>	0.3	0.1
<i>Polymeria ambigua</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.5	1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.7	0.1
<i>Senna symonii</i>	1.5	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.6	30
<i>Triodia lanigera</i>	0.4	0.2

PHOTO



Site Name: WD64
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 674734E 7653978N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NE
 Soil Type: Clayey Sand
 Soil Colour: Brown
 Rock Outcrop: Granite, 2-10% bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - VG - Very Good
 Disturbance: Exotic Weeds - Significant weed cover
 Fire: > 5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus victrix*
 Mid Stratum 1: *Acacia pyrifolia* var. *pyrifolia*, *Acacia tumida* var. *pilbarensis*, *Melaleuca linophylla*
 Mid Stratum 2: *Corchorus parviflorus*, *Tephrosia rosea* var. *clementii*
 Lower Stratum 1: **Cenchrus ciliaris*, *Eriachne tenuiculmis*, *Themeda triandra*
 Lower Stratum 2: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> aff. <i>hannii</i>	0.4	0.1
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.1	0.1
<i>Acacia bivenosa</i>	1.3	0.1
<i>Acacia maitlandii</i>	0.3	0.1
<i>Acacia orthocarpa</i>	1.5	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.5	2
<i>Acacia spondylophylla</i>	0.5	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	1.6	0.5
* <i>Aerva javanica</i>	0.1	0.2
<i>Boerhavia burbridgeana</i>		0.5
<i>Cajanus cinereus</i>	1.8	0.1
* <i>Cenchrus ciliaris</i>	0.6	7
<i>Chrysopogon fallax</i>	0.6	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.7	1
<i>Corymbia hamersleyana</i>	5	0.3
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.6	0.2
<i>Dampiera candidans</i>	0.4	0.1
<i>Enneapogon lindleyanus</i>	0.4	0.1
<i>Eriachne tenuiculmis</i>	0.5	1
<i>Eucalyptus victrix</i>	6	30
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.2	0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Euphorbia trigonosperma</i>	0.3	0.1
<i>Goodenia microptera</i>	0.4	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Gossypium australe</i>	1.4	0.1
<i>Heliotropium pachyphyllum</i>	0.3	0.1
<i>Heliotropium tenuifolium</i>	0.4	0.1

<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera colutea</i>	0.1	0.1
<i>Indigofera monophylla</i>	1	0.1
<i>Isotropis atropurpurea</i>	0.8	0.1
<i>Melaleuca linophylla</i>	1.5	1
<i>Melhania oblongifolia</i>	0.3	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Paspalidium tabulatum</i>	0.4	0.1
<i>Phyllanthus maderaspatensis</i>	0.3	0.1
<i>Polymeria ambigua</i>	0.2	0.1
<i>Pterocaulon sphaeranthoides</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus axillaris</i>		0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna notabilis</i>	0.2	0.1
<i>Sida clementii</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.7	0.1
<i>Swainsona formosa</i>	0.4	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.7	0.5
<i>Themeda triandra</i>	1	0.5
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Tribulus platypterus</i>	1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	25
<i>Triumfetta propinqua</i>	0.8	0.1

PHOTO

Site Name: WD65
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 676348E 7663040N
 Landform Type: Other, Stony plain (other)
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Dolerite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia synchronicia</i>	0.3	0.2
* <i>Cenchrus ciliaris</i>	0.4	0.2
<i>Cynodon prostratus</i>	0.1	0.1
<i>Fimbristylis dichotoma</i>		
<i>Maireana</i> sp.	0.7	0.2
<i>Portulaca oleracea</i>	0.1	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Triodia longiceps</i>	0.6	55

PHOTO

Site Name: WD66
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 674839E 7653710N
 Landform Type: Mid Slope
 Slope Class: Steep (23 degrees)
 Aspect: NE
 Soil Type: Clayey Sand
 Soil Colour: Brown
 Rock Outcrop: Granite, Quartz (other), 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3-4 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*, *Gossypium australe*
 Lower Stratum 1: *Acacia spondylophylla*
 Lower Stratum 2: *Triodia brizoides*, *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	1.2	0.2
<i>Acacia spondylophylla</i>	0.6	2
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.8	0.1
<i>Cyperus hesperius</i>	0.3	0.1
<i>Dampiera candidans</i>	0.5	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Gossypium australe</i>	1.5	0.2
<i>Hibiscus coatesii</i>	0.5	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.6	0.1
<i>Ptilotus astrolasius</i>	0.5	0.1
<i>Ptilotus calostachyus</i>	0.7	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.3	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.5	0.1
<i>Solanum phlomoides</i>	0.5	0.1
<i>Tribulus suberosus</i>	0.7	0.2
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.2	30
<i>Triodia epactia</i>	0.3	30
<i>Triumfetta maconochieana</i>	0.3	0.1

PHOTO



Site Name: WD67
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 676481E 7662475N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 10-20%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	1.8	7
<i>Acacia inaequilatera</i>	3	1
<i>Acacia stellaticeps</i>	0.3	2
<i>Bonamia erecta</i>	0.2	0.1
<i>Chrysopogon fallax</i>	0.5	0.3
<i>Corymbia hamersleyana</i>	1	0.2
<i>Eragrostis eriopoda</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Pluchea tetranthera</i>	0.5	0.1
<i>Ptilotus astrolasius</i>	0.4	0.2
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Senna glutinosa</i> subsp. <i>x luerssenii</i>	1.2	0.3
<i>Senna symonii</i>	1	0.4
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	35
<i>Triodia lanigera</i>	0.4	20

PHOTO



Site Name: WD68
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675114E 7653723N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: S
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3-4 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*
 Mid Stratum 2: *Acacia maitlandii*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia maitlandii</i>	1.4	20
<i>Acacia orthocarpa</i>	2	1
<i>Acacia spondylophylla</i>	0.6	0.1
<i>Bonamia aff. pilbarensis</i>	0.1	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Dampiera candidans</i>	0.4	0.1
<i>Eriachne ciliata</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.4	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis dichotoma</i>	0.2	0.1
<i>Goodenia microptera</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.3	0.5
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.2	0.1
<i>Heliotropium pachyphyllum</i>	0.3	0.1
<i>Heliotropium tenuifolium</i>	0.2	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Isotropis atropurpurea</i>	0.8	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1
<i>Seringia nephrosperma</i>	0.3	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.6	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.3	55
<i>Triodia wiseana</i>	0.5	1
<i>Tripogonella loliiformis</i>	0.2	0.1

PHOTO



Site Name: WD69
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 676958E 7663197N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	3	15
<i>Acacia stellaticeps</i>	0.6	0.3
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	2.5	0.3
<i>Goodenia microptera</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	0.2
<i>Triodia lanigera</i>	0.4	55

PHOTO

Site Name: WD70
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675261E 7653742N
 Landform Type: Open Depression
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: SE
 Soil Type: Sandy Clay
 Soil Colour: Grey-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3-4 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia bivenosa*
 Lower Stratum 1: *Triodia scintillans*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	1.5	1.5
<i>Bonamia aff. pilbarensis</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Codonocarpus cotinifolius</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Corymbia hamersleyana</i>	4	0.4
<i>Goodenia microptera</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Heliotropium chrysocarpum</i>	0.2	0.1
<i>Hibiscus sturtii var. campylochlamys</i>	0.2	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Paraneurachne muelleri</i>	0.5	0.1
<i>Petalostylis labicheoides</i>	1.3	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Ptilotus polystachyus</i>	0.3	0.1
<i>Salsola australis</i>	0.2	0.1
<i>Senna artemisioides subsp. oligophylla</i>	0.4	0.1
<i>Solanum phlomoides</i>	0.6	0.1
<i>Stackhousia ?muricata</i>	0.2	0.1
<i>Triodia scintillans</i>	0.2	75
<i>Triodia wiseana</i>	0.4	0.1

PHOTO



Site Name: WD71
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 676324E 7661692N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Sandy Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2	10
<i>Bonamia alatisemina</i>		0.1
<i>Bonamia erecta</i>	0.4	25
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.5	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.3
<i>Halgania solanacea</i> var. <i>solanacea</i> ms	0.3	0.3
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Ptilotus astrolasius</i>	0.5	2
<i>Ptilotus calostachyus</i>	0.8	0.2
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia lanigera</i>	0.5	55

PHOTO



Site Name: WD72
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675062E 7653892N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: NW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia maitlandii</i>	1.6	0.1
<i>Acacia orthocarpa</i>	2.5	3
<i>Bonamia aff. pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.4	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia epactia</i>	0.4	50
<i>Triodia lanigera</i>	0.4	0.1

PHOTO



Site Name: WD73
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675678E 7661814N
 Landform Type: Drainage Line
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: River stones (other)
 Vegetation Condition: Northern Vegetation Condition - P - Poor
 Disturbance: Exotic Weeds - *Cenchrus ciliaris*, Pig/Animal Disturbance - Cattle activity
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	3	1
<i>Acacia ancistrocarpa x tumida</i> var. <i>pilbarensis</i>	4	0.2
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2	5
<i>Acacia trachycarpa</i>	3	10
<i>Acacia tumida</i> var. <i>pilbarensis</i>	6	8
<i>Amaranthus undulatus</i>	0.3	0.1
<i>Bonamia erecta</i>	0.3	0.2
<i>Cajanus cinereus</i>	1	0.5
* <i>Cenchrus ciliaris</i>	0.5	35
* <i>Cenchrus setiger</i>	0.5	0.5
<i>Chrysopogon fallax</i>	0.4	0.2
<i>Cleome viscosa</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.8	1
<i>Corymbia hamersleyana</i>	7	10
<i>Cullen leucanthum</i>	0.5	0.1
<i>Dampiera candidans</i>	0.5	0.1
<i>Eucalyptus victrix</i>	7	6
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia ?trigonosperma</i>	0.5	0.1
<i>Goodenia forrestii</i>	0.3	0.1
<i>Gossypium australe</i>	0.5	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.5
<i>Hybanthus aurantiacus</i>	0.8	1
<i>Indigofera monophylla</i>	0.8	1
<i>Paraneurachne muelleri</i>	0.4	0.2
<i>Phyllanthus maderaspatensis</i>	0.6	0.2
<i>Pluchea ferdinandi-muelleri</i>	0.4	0.1
<i>Pluchea rubelliflora</i>	0.3	0.1
<i>Polymeria ambigua</i>	0.2	0.1
<i>Rhynchosia minima</i>		0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Stemodia grossa</i>	0.5	0.3
<i>Tephrosia rosea</i> var. <i>clementii</i>	1	1
<i>Themeda triandra</i>	0.8	0.4
<i>Trianthema pilosum</i>		
<i>Triodia epactia</i>	0.5	8
<i>Waltheria indica</i>	0.5	0.1

PHOTO



Site Name: WD74
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 674953E 7654289N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: S
 Soil Type: Clayey Sand
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia tumida* var. *pilbarensis*, *Petalostylis labicheoides*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	1.4	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.2	0.1
<i>Acacia spondylophylla</i>	0.7	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	20
<i>Bonamia alatisemina</i>		0.1
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.1	0.1
<i>Bonamia pilbarensis</i>		0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Codonocarpus cotinifolius</i>	0.6	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Dampiera candicans</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.4	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eriachne tenuiculmis</i>	0.5	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Goodenia microptera</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.6	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	0.1
<i>Hybanthus aurantiacus</i>	0.5	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Isotropis atropurpurea</i>	0.6	0.1
<i>Lepidium</i> ? <i>pholidogynum</i>	0.1	0.1
<i>Petalostylis labicheoides</i>	2	30
<i>Ptilotus astrolasius</i>	0.4	0.5
<i>Ptilotus axillaris</i>		0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Salsola australis</i>	0.3	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1
<i>Swainsona formosa</i>	0.3	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.8	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia epactia</i>	0.4	25

PHOTO



Site Name: WD75
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675518E 7661795N
 Landform Type: Other, Stony plain (other)
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2	1
<i>Acacia inaequilatera</i>	2.5	1
<i>Bonamia erecta</i>	0.4	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.5
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	50
<i>Triodia lanigera</i>	0.4	5

PHOTO



Site Name: WD76
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675115E 7654237N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: SSE
 Soil Type: Sandy Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3-4 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*
 Lower Stratum 1: *Triodia lanigera*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia orthocarpa</i>	1.2	1.5
<i>Acacia spondylophylla</i>	0.5	0.5
<i>Bonamia aff. pilbarensis</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Codonocarpus cotinifolius</i>	1.3	0.1
<i>Corchorus parviflorus</i>	0.7	0.5
<i>Eriachne mucronata</i>	0.4	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.5
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.7	0.4
<i>Indigofera monophylla</i>	0.3	0.1
<i>Ptilotus astrolasius</i>	0.6	0.1
<i>Ptilotus calostachyus</i>	0.9	0.1
<i>Ptilotus exaltatus</i>	0.2	0.1
<i>Senna symonii</i>	0.8	0.1
<i>Solanum phlomoides</i>	0.5	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.3	0.2
<i>Triodia epactia</i>	0.4	0.2
<i>Triodia lanigera</i>	0.3	25
<i>Triodia wiseana</i>	0.4	20

PHOTO



Site Name: WD77
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674958E 7652144N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Calcrete, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Limited Clearing - Extremely old track running through quadrat
 Fire: ~ 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	2	2.5
<i>Acacia orthocarpa</i>	0.5	0.1
<i>Boerhavia gardneri</i>	0.4	0.3
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Codonocarpus cotinifolius</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.5	0.3
<i>Corymbia hamersleyana</i>	4	4
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	1	0.1
<i>Goodenia microptera</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.4	0.2
<i>Indigofera rugosa</i>	0.6	0.5
<i>Ptilotus astrolasius</i>	0.2	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.4	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1
<i>Tribulus platypterus</i>	0.3	0.1
<i>Triodia scintillans</i>	0.2	40
<i>Triodia wiseana</i>	0.4	5

PHOTO



Site Name: WD78
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675030E 7654362N
 Landform Type: Open Depression
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: WSW
 Soil Type: Sandy Clay
 Soil Colour: Grey-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3-4 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia acradenia*, *Acacia bivenosa*, *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Triodia epactia*, *Triodia scintillans*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	2
<i>Acacia bivenosa</i>	1.5	3
<i>Acacia tumida</i> var. <i>pilbarensis</i>	1.5	0.5
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Codonocarpus cotinifolius</i>	1	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Corymbia hamersleyana</i>	5	1
<i>Dodonaea coriacea</i>	0.6	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Heliotropium chrysocarpum</i>	0.3	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.2	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Paraneurachne muelleri</i>	0.5	0.1
<i>Polymeria ambigua</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus axillaris</i>		0.1
<i>Ptilotus exaltatus</i>	0.2	0.1
<i>Sclerolaena densiflora</i>	0.1	0.1
<i>Senna symonii</i>	0.8	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia angusta</i>	0.3	1
<i>Triodia epactia</i>	0.4	2
<i>Triodia scintillans</i>	0.2	40

PHOTO



Site Name: WD79
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674920E 7652361N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Gently Inclined (3 degrees)
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, 2-10% bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia maitlandii</i>	0.5	0.4
<i>Acacia orthocarpa</i>	2	6
<i>Acacia spondylophylla</i>	0.3	0.1
<i>Bonamia alatisemina</i>		0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.4	0.1
<i>Corchorus parviflorus</i>	0.5	0.4
<i>Corymbia hamersleyana</i>	4.5	2.5
<i>Dampiera candidans</i>	0.4	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.2
<i>Goodenia microptera</i>	0.2	0.1
<i>Goodenia muelleriana</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.3	0.5
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	0.1
<i>Heliotropium tenuifolium</i>	0.2	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.3	0.5
<i>Pluchea ferdinandi-muelleri</i>	0.4	0.1
<i>Pluchea tetranthera</i>	0.4	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.4	0.3
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Stemodia grossa</i>	0.2	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	1	0.2
<i>Trigastrotheca molluginosa</i>	0.1	0.1
<i>Triodia brizoides</i>	0.3	0.3
<i>Triodia epactia</i>	0.3	20
<i>Triodia lanigera</i>	0.3	20

PHOTO



Site Name: WD80
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675288E 7654729N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: N
 Soil Type: Sandy Clay
 Soil Colour: Grey-brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Calcrete, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*
 Lower Stratum 1: *Acacia stellaticeps*
 Lower Stratum 2: *Triodia angusta*, *Triodia scintillans*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	1.1	0.1
<i>Acacia orthocarpa</i>	2.5	0.2
<i>Acacia spondylophylla</i>	0.8	0.1
<i>Acacia stellaticeps</i>	1	1
<i>Cassytha capillaris</i>		0.1
<i>Corchorus parviflorus</i>	0.8	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Trianthema triquetrum</i>	0.1	0.1
<i>Triodia angusta</i>	0.7	40
<i>Triodia scintillans</i>	0.3	20
<i>Triodia wiseana</i>	0.5	3

PHOTO



Site Name: WD81
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674608E 7651960N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: N
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: ~ 3 years / > 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia maitlandii</i>	0.3	0.1
<i>Acacia orthocarpa</i>	3	2
<i>Acacia spondylophylla</i>	0.4	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	2
<i>Bonamia alatisemina</i>		0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.6	0.5
<i>Corymbia hamersleyana</i>	4	0.5
<i>Dampiera candidans</i>	0.5	0.2
<i>Eriachne ciliata</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.2
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	3
<i>Heliotropium tenuifolium</i>	0.2	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.3	0.3
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1
<i>Solanum phlomoides</i>	0.5	0.1
<i>Tephrosia virens</i>	1.2	0.2
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.4	12
<i>Triodia epactia</i>	0.4	20
<i>Triodia lanigera</i>	0.4	8

PHOTO



Site Name: WD82
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 01/07/2018
 GPS Location: GDA94 Zone 50 675312E 7654780N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: E
 Soil Type: Clayey Sand
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Calcrete, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia bivenosa*, *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. *hispidula*, *Petalostylis labicheoides*

Lower Stratum 1: *Triodia angusta*, *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	2.5	0.2
<i>Acacia spondylophylla</i>	0.6	0.1
<i>Acacia stellaticeps</i>	0.6	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	10
<i>Aristida holathera</i> var. <i>holathera</i>	0.7	0.1
<i>Bonamia</i> aff. <i>pilbarensis</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
* <i>Cenchrus ciliaris</i>	0.4	0.4
<i>Chrysopogon fallax</i>	0.7	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	1	0.1
<i>Corymbia hamersleyana</i>	4	0.2
<i>Dodonaea coriacea</i>	0.6	0.1
<i>Eriachne mucronata</i>	0.6	0.1
<i>Goodenia muelleriana</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.6	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.2
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.8	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	1	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.7	0.1
<i>Isotropis atropurpurea</i>	0.6	0.1
<i>Petalostylis labicheoides</i>	2	5
<i>Pluchea tetranthera</i>	0.6	0.1
<i>Polymeria ambigua</i>	0.1	0.1
<i>Pterocaulon sphaeranthoides</i>	0.8	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	1.1	0.1
<i>Santalum lanceolatum</i>		
<i>Senna notabilis</i>	0.1	0.1
<i>Senna symonii</i>	0.4	0.1
<i>Solanum phlomoides</i>	0.6	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.8	0.1

<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia angusta</i>	1.4	85
<i>Triodia epactia</i>	0.7	1
<i>Triodia scintillans</i>	0.2	0.1
<i>Triodia wiseana</i>	0.8	1

PHOTO

Site Name: WD83
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674337E 7651847N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Gently Inclined (3 degrees)
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Shale (other), 2-10% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Dolerite, Calcrete, Quartz, Shale (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	3	1.5
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Cullen leucochaites</i>	0.8	0.1
<i>Indigofera rugosa</i>	1	1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.5	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Triodia epactia</i>	0.5	0.5
<i>Triodia scintillans</i>	0.2	50
<i>Triodia wiseana</i>	0.4	5

PHOTO

Site Name: WD84
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 673946E 7653210N
 Landform Type: Mid Slope
 Slope Class: Precipitous (60 degrees)
 Aspect: S
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*, *Eucalyptus leucophloia* subsp. *leucophloia*
 Mid Stratum 1: *Acacia inaequilatera*, *Hakea lorea* subsp. *lorea*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia brizoides*, *Triodia epactia*, *Triodia wiseana*
 Lower Stratum 2: *Eriachne mucronata*, *Themeda triandra*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	1	0.1
<i>Acacia acradenia</i>	1.5	0.2
<i>Acacia inaequilatera</i>	2.5	0.5
* <i>Aerva javanica</i>	0.3	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Cleome viscosa</i>	0.4	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	3	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.4	0.1
<i>Cyperus hesperius</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.3	1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	4.5	2
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	2	0.1
<i>Hibiscus goldsworthii</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Indigofera trita</i>	0.3	0.2
<i>Jasminum didymum</i> subsp. <i>lineare</i>		0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.8	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.2	0.1
<i>Solanum horridum</i>	0.2	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Themeda triandra</i>	0.4	0.2
<i>Tribulus suberosus</i>	0.4	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1

<i>Triodia brizoides</i>	0.4	78
<i>Triodia epactia</i>	0.4	0.5
<i>Triodia wiseana</i>	0.5	2
<i>Triumfetta propinqua</i>	0.3	0.1

PHOTO

Site Name: WD85
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674086E 7651711N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Moderately Inclined (10 degrees)
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	0.2
<i>Acacia maitlandii</i>	2	1
<i>Acacia orthocarpa</i>	2.5	3
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.6	0.2
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dampiera candidans</i>	0.3	0.1
<i>Eriachne ciliata</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.2
<i>Euphorbia careyi</i>	0.2	0.1
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	2.1	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	3
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.5	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Nicotiana benthamiana</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Petalostylis labicheoides</i>	2	0.2
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.5	0.3
<i>Sida arenicola</i>	0.4	0.1
<i>Terminalia circumalata</i>	3	1
<i>Tinospora smilacina</i>		0.1
<i>Triodia brizoides</i>	0.4	20
<i>Triodia epactia</i>	0.4	45
<i>Tripogonella loliiformis</i>	0.1	0.1

PHOTO



Site Name: WD86
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 673941E 7653144N
 Landform Type: Lower Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: SSW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*
 Lower Stratum 1: *Triodia epactia*, *Triodia scintillans*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	0.2
<i>Acacia inaequilatera</i>	2	2
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.6	0.1
<i>Ptilotus calostachyus</i>	0.8	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.2	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Triodia brizoides</i>	0.3	0.1
<i>Triodia epactia</i>	0.5	30
<i>Triodia scintillans</i>	0.3	2
<i>Triodia wiseana</i>	0.5	40

PHOTO



Site Name: WD87
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 673937E 7651888N
 Landform Type: Upper Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: S
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Ironstone, 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	0.2
<i>Acacia inaequilatera</i>	1.2	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cullen leucochaites</i>	1.8	0.2
<i>Cymbopogon ambiguus</i>	0.6	0.5
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dampiera candidans</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.3	0.5
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gossypium australe</i>	1.8	0.4
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	2	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.5	0.1
<i>Hibiscus goldsworthii</i>	0.6	0.1
<i>Indigofera monophylla</i>	0.3	0.2
<i>Indigofera rugosa</i>	0.5	0.1
<i>Triodia brizoides</i>	0.4	35
<i>Triodia epactia</i>	0.4	15
<i>Triodia wiseana</i>	0.4	5
<i>Triumfetta maconochieana</i>	0.4	0.1
<i>Triumfetta propinqua</i>	0.5	0.1

PHOTO



Site Name: WD88
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 673857E 7653000N
 Landform Type: Hillock
 Slope Class: Steep (23 degrees)
 Aspect: E
 Soil Type: Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Dolerite, Granite (other), >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Dolerite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Senna glutinosa* subsp. *glutinosa*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Aristida holathera</i> var. <i>holathera</i>	0.3	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Crotalaria novae-hollandiae</i> subsp. <i>novae-hollandiae</i>	0.2	0.1
<i>Cullen leucochaites</i>	2	0.1
<i>Cymbopogon ambiguus</i>	0.5	0.1
<i>Eriachne ciliata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gossypium australe</i>	0.5	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.3	0.1
<i>Ptilotus fusiformis</i>	0.3	0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.5	0.1
<i>Swainsona formosa</i>	0.7	0.1
<i>Tephrosia densa</i>	0.3	0.1
<i>Trachymene oleracea</i>	0.4	0.1
<i>Tribulus suberosus</i>	0.6	0.1
<i>Triodia brizoides</i>	0.5	1
<i>Triodia epactia</i>	0.5	60
<i>Triodia wiseana</i>	0.6	1

PHOTO



Site Name: WD89
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 675010E 7660894N
 Landform Type: Other, Stony plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	1.5
<i>Acacia ancistrocarpa</i>	1.8	0.3
<i>Acacia inaequilatera</i>	3	0.6
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Corchorus parviflorus</i>	1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.6
<i>Ptilotus astrolasius</i>	0.5	0.2
<i>Ptilotus calostachyus</i>	0.8	0.1
<i>Solanum phlomoides</i>	0.7	0.1
<i>Stemodia grossa</i>	0.5	0.1
<i>Tephrosia clementii</i>	0.1	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	5
<i>Triodia lanigera</i>	0.5	20
<i>Triodia wiseana</i>	0.5	20

PHOTO



Site Name: WD90
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674043E 7652926N
 Landform Type: Drainage Line
 Slope Class: Gently Inclined (3 degrees)
 Aspect: ENE
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: River stones (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus victrix*
 Mid Stratum 1: *Acacia pyrifolia* var. *pyrifolia*, *Acacia tumida* var. *pilbarensis*
 Mid Stratum 2: *Cajanus cinereus*
 Lower Stratum 1: *Corchorus parviflorus*, *Tephrosia rosea* var. *clementii*
 Lower Stratum 2: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> aff. <i>hannii</i>	0.8	0.1
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.7	0.1
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2	0.5
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	1
* <i>Aerva javanica</i>	0.3	0.1
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Boerhavia burbridgeana</i>		0.1
<i>Cajanus cinereus</i>	1.2	1
* <i>Cenchrus ciliaris</i>	0.1	0.1
<i>Cleome viscosa</i>	0.6	0.1
<i>Corchorus parviflorus</i>	0.6	1
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	0.3	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.5	0.1
<i>Cyperus vaginatus</i>	0.6	0.1
<i>Dampiera candidans</i>	0.4	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Enneapogon lindleyanus</i>	0.4	0.1
<i>Eriachne tenuiculmis</i>	0.4	0.5
<i>Eucalyptus victrix</i>	8	3
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.3	0.1
<i>Euphorbia trigonosperma</i>	0.1	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	2.5	0.2
<i>Gossypium australe</i>	1.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1
<i>Hibiscus leptocladus</i>	0.5	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.6	0.2

<i>Ipomoea muelleri</i>		0.1
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Phyllanthus maderaspatensis</i>	0.4	0.1
<i>Polymeria ambigua</i>	0.1	0.1
<i>Pterocaulon sphaeranthoides</i>	0.4	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna notabilis</i>	0.4	0.1
<i>Sida clementii</i>	0.3	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Swainsona formosa</i>	0.1	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.7	0.5
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.2	0.1
<i>Triodia epactia</i>	0.5	20
<i>Triodia wiseana</i>	0.6	0.5
<i>Triumfetta propinqua</i>	0.4	0.1

PHOTO

Site Name: WD91
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674802E 7662311N
 Landform Type: Drainage Line
 Slope Class: Level (0 degrees)
 Soil Type: Sandy Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 0%
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Pig/Animal Disturbance - Cattle activity
 Fire: > 3 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	3	5
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2	0.3
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	25
<i>Aristida holathera</i> var. <i>holathera</i>	0.5	0.5
<i>Bonamia erecta</i>	0.3	3
<i>Cassytha capillaris</i>		0.1
* <i>Cenchrus ciliaris</i>	0.5	0.2
<i>Chrysopogon fallax</i>	0.5	20
<i>Corchorus parviflorus</i>	0.5	0.2
<i>Corymbia hamersleyana</i>	6	4
<i>Digitaria brownii</i>	0.5	0.2
<i>Eriachne mucronata</i>	0.3	0.1
<i>Euphorbia</i> ? <i>trigonosperma</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.6	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3.5	0.2
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	0.1
<i>Hybanthus aurantiacus</i>	0.8	2
<i>Indigofera monophylla</i>	1	3
<i>Isotropis atropurpurea</i>	0.8	0.1
<i>Paraneurachne muelleri</i>	0.4	0.2
<i>Paspalidium rarum</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.8	0.1
<i>Ptilotus fusiformis</i>	0.4	0.1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	2.4	0.2
<i>Seringia nephrosperma</i>	1	1
<i>Sida arenicola</i>	0.2	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	20
<i>Triodia lanigera</i>	0.5	10

PHOTO



Site Name: WD92
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674186E 7652665N
 Landform Type: Lower Slope
 Slope Class: Steep (23 degrees)
 Aspect: NW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia brizoides*, *Triodia lanigera*, *Triodia scintillans*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.7	1
<i>Acacia inaequilatera</i>	2	0.8
<i>Bonamia pilbarensis</i>		0.1
<i>Bonamia aff. pilbarensis</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Dampiera candidans</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.1	0.2
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.5	0.1
<i>Triodia brizoides</i>	0.4	75
<i>Triodia lanigera</i>	0.5	1
<i>Triodia scintillans</i>	0.3	2
<i>Triodia wiseana</i>	0.5	3

PHOTO



Site Name: WD94
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674544E 7652601N
 Landform Type: Lower Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: SW
 Soil Type: Sandy Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus leucophloia* subsp. *leucophloia*
 Mid Stratum 1: *Acacia maitlandii*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Acacia spondylophylla*
 Lower Stratum 2: *Triodia brizoides*, *Triodia epactia*, *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	0.4
<i>Acacia maitlandii</i>	1.8	0.8
<i>Acacia orthocarpa</i>	2.5	0.1
<i>Acacia spondylophylla</i>	0.6	0.5
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.2
<i>Bonamia alatisemina</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.2	0.1
<i>Corymbia hamersleyana</i>	1.7	0.1
<i>Cyperus hesperius</i>	0.3	0.1
<i>Dampiera candicans</i>	0.3	0.1
<i>Eriachne ciliata</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.2	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	2	0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	0.1	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Gossypium australe</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	1.5
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.3	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Rhynchosia minima</i>		0.1
<i>Sida arenicola</i>	1.5	0.1

<i>Tephrosia virens</i>	0.3	0.1
<i>Triodia brizoides</i>	0.5	45
<i>Triodia epactia</i>	0.5	10
<i>Triodia lanigera</i>	0.5	1
<i>Triodia wiseana</i>	0.6	0.2
<i>Triumfetta maconochieana</i>	0.4	0.1

PHOTO

Site Name: WD96
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 02/07/2018
 GPS Location: GDA94 Zone 50 674388E 7652488N
 Landform Type: Upper Slope
 Slope Class: Precipitous (60 degrees)
 Aspect: SW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-brown (other)
 Rock Outcrop: Ironstone, 10-20% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Fire: > 10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Hakea lorea* subsp. *lorea*
 Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	0.1
<i>Boerhavia gardneri</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.5	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Gossypium australe</i>	1	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.5	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Rhynchosia minima</i>		0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Triodia epactia</i>	0.5	65
<i>Triodia wiseana</i>	0.5	20
<i>Triumfetta propinqua</i>	0.2	0.1

PHOTO



Site Name: WDD01
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/06/2019
 GPS Location: GDA94 Zone 50 672949.53720754E 7662896.12187801N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: E
 Soil Type: Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Metamorphic (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia tumida* var. *pilbarensis*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	6
<i>Acacia ancistrocarpa</i>	2	1
<i>Acacia inaequilatera</i>	3	0.3
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	3.5
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.4
<i>Indigofera monophylla</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Triodia brizoides</i>	0.4	0.1
<i>Triodia epactia</i>	0.4	5
<i>Triodia lanigera</i>	0.4	35

PHOTO



Site Name: WDD02
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/06/2019
 GPS Location: GDA94 Zone 50 673381.50827186E 7662798.91542118N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Sandy Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm
 CF Types: Metamorphic (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia ancistrocarpa*
 Mid Stratum 1: *Bonamia erecta*
 Lower Stratum 1: *Triodia epactia*, *Triodia lanigera*, *Triodia schinzii*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2	7
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.3	0.2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.4
<i>Bonamia erecta</i>	0.4	1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Eragrostis eriopoda</i>	0.2	0.1
<i>Euphorbia clementii</i> (P3)	0.1	0.1
<i>Triodia epactia</i>	0.4	5
<i>Triodia lanigera</i>	0.4	25
<i>Triodia schinzii</i>	0.6	5

PHOTO



Site Name: WDD03
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/06/2019
 GPS Location: GDA94 Zone 50 673034.76815557E 7661761.32944816N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Sandy Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 0%
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia ancistrocarpa*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	1.8	5
<i>Acacia inaequilatera</i>	1	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.5
<i>Bonamia erecta</i>	0.3	0.3
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	6	0.5
<i>Corymbia zygophylla</i>	2	0.3
<i>Indigofera monophylla</i>	0.3	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	0.3
<i>Triodia lanigera</i>	0.5	40

PHOTO



Site Name: WDD04
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/06/2019
 GPS Location: GDA94 Zone 50 672713.25051303E 7661005.92491976N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: E
 Soil Type: Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Metamorphic (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia inaequilatera*, *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia brizoides*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	5
<i>Acacia inaequilatera</i>	2.5	0.4
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	1
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.4	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.3
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.3	30
<i>Triodia epactia</i>	0.4	5

PHOTO



Site Name: WDD05
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 672191.86613496E 7662762.76441046N
 Landform Type: Ridge
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: E
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Metamorphic (other), 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Metamorphic (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Senna symonii*

Lower Stratum 1: *Triodia brizoides*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.6	3
<i>Acacia inaequilatera</i>	2	0.2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.6	0.1
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Aristida burbridgeae</i>	0.3	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	0.2	0.1
<i>Cyperus hesperius</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.3	1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gossypium australe</i>	0.5	0.2
<i>Hakea lorea</i> subsp. <i>lorea</i>	2	0.3
<i>Indigofera monophylla</i>	0.3	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Senna symonii</i>	1.6	3
<i>Solanum phlomoides</i>	0.3	0.1
<i>Tribulus suberosus</i>	0.5	0.2
<i>Triodia brizoides</i>	0.4	25
<i>Triodia epactia</i>	0.4	2
<i>Triodia wiseana</i>	0.4	8
<i>Triumfetta propinqua</i>	0.5	0.2

PHOTO



Site Name: WDD06
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 671796.38895058E 7663591.86637714N
 Landform Type: Plain
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Metamorphic (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Acacia inaequilatera*, *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.5	5
<i>Acacia inaequilatera</i>	3	2.5
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3.5	2
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	1.8	0.3
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.5
<i>Indigofera monophylla</i>	0.2	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.4	0.2
<i>Triodia epactia</i>	0.4	35

PHOTO



Site Name: WDD07
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 672386.56220014E 7663948.32562604N
 Landform Type: Crest
 Slope Class: Steep (23 degrees)
 Aspect: W
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Metamorphic (other), >50% bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Metamorphic (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.6	2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	3
<i>Corymbia hamersleyana</i>	4	0.6
<i>Dampiera candidans</i>	0.4	0.3
<i>Eriachne mucronata</i>	0.3	7
<i>Goodenia stobbsiana</i>	0.4	1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	2
<i>Indigofera monophylla</i>	0.1	0.1
<i>Terminalia supranitifolia</i> (P3)	1.2	0.3
<i>Triodia brizoides</i>	0.3	0.1
<i>Triodia epactia</i>	0.4	33

PHOTO



Site Name: WDD08
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 672894.04646932E 7663618.60632893N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Sandy Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 0%
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: (other) - Man made mound of dirt near edge of quadrat
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3.5	30
<i>Boerhavia coccinea</i>	0.1	0.1
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Bonamia erecta</i>	0.4	0.3
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	5	1
<i>Dampiera candidans</i>	0.4	0.1
<i>Eragrostis eriopoda</i>	0.2	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	1.5
<i>Heliotropium vestitum</i>	0.1	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Leptosema anomalum</i>	0.2	0.1
<i>Paspalidium clementii</i>	0.1	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Solanum diversiflorum</i>	0.1	0.1
<i>Tinospora smilacina</i>		0.1
<i>Triodia epactia</i>	0.5	15
<i>Triodia lanigera</i>	0.5	3
<i>Triodia schinzii</i>	0.5	5

PHOTO



Site Name: WDD09
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 672840.14571695E 7663868.40421554N
 Landform Type: Lower Slope
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: E
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Metamorphic (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Triodia epactia*
 Mid Stratum 1: *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.5	4
<i>Acacia inaequilatera</i>	3.5	0.3
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3.5	1.5
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.2	0.1
<i>Dampiera candidans</i>	0.5	0.5
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3.5	3
<i>Indigofera monophylla</i>	0.5	0.1
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	35

PHOTO



Site Name: WDD10
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 673399.02986113E 7663764.77725223N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Sandy Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 0%
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia ancistrocarpa*
 Mid Stratum 2: *Bonamia erecta*
 Lower Stratum 1: *Triodia schinzii*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	1.8	4
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	0.8	0.3
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.2
<i>Bonamia erecta</i>	0.4	0.5
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Eragrostis eriopoda</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.6	0.2
<i>Heliotropium vestitum</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.4	0.2
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.6	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1
<i>Trianthema pilosum</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia schinzii</i>	0.5	35
<i>Triumfetta chaetocarpa</i>	0.4	0.1

PHOTO



Site Name: WDD11
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 673654.55193132E 7663295.95332357N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 0%
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia zygophylla*
 Mid Stratum 1: *Acacia ancistrocarpa*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2.5	30
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.5	0.1
<i>Bonamia erecta</i>	0.2	0.1
<i>Corymbia zygophylla</i>	5	1
<i>Eragrostis eriopoda</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.1	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Triodia lanigera</i>	0.5	35
<i>Triodia schinzii</i>	0.5	2

PHOTO



Site Name: WDD12
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 674031.83492858E 7662652.00691635N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Clayey Sand
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 10-20%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Metamorphic, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia zygophylla*
 Mid Stratum 1: *Acacia ancistrocarpa*, *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2.5	9
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	7
<i>Bonamia erecta</i>	0.3	0.2
<i>Corymbia zygophylla</i>	4	1
<i>Eriachne mucronata</i>	0.4	0.1
<i>Halgania solanacea</i> var. <i>solanacea</i> ms	0.2	0.1
<i>Indigofera monophylla</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Triodia lanigera</i>	0.4	35
<i>Triodia schinzii</i>	0.5	0.2

PHOTO



Site Name: WDD13
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 674881.55E 7663636.54N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Metamorphic, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia ancistrocarpa*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2	30
<i>Acacia inaequilatera</i>	1.5	0.2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.2
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Bonamia erecta</i>	0.3	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	0.1
<i>Triodia lanigera</i>	0.3	35

PHOTO



Site Name: WDD14
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 675946.23E 7663305.9N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Clayey Sand
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Ironstone, Metamorphic, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia ancistrocarpa*, *Acacia inaequilatera*
 Lower Stratum 1: *Triodia epactia*, *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	1	1
<i>Acacia inaequilatera</i>	2	0.4
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Bonamia erecta</i>	0.3	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Chrysopogon fallax</i>	0.2	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	4	0.5
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia muelleriana</i>	0.1	0.1
<i>Heliotropium cunninghamii</i>	0.1	0.1
<i>Heliotropium pachyphyllum</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Portulaca oleracea</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus axillaris</i>		0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.1	0.1
<i>Tinospora smilacina</i>		0.1
<i>Trianthema pilosum</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	7
<i>Triodia lanigera</i>	0.4	28
<i>Yakirra australiensis</i> var. <i>australiensis</i>	0.1	0.1

PHOTO



Site Name: WDD15
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 675744.64E 7663848.15N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Light brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia inaequilatera*
 Mid Stratum 2: *Acacia bivenosa*, *Codonocarpus cotinifolius*
 Lower Stratum 1: *Triodia chichesterensis*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	1.3	0.1
<i>Acacia bivenosa</i>	1.5	1.5
<i>Acacia inaequilatera</i>	4	3
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Codonocarpus cotinifolius</i>	1.5	2.5
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Corymbia hamersleyana</i>	5	1.5
<i>Goodenia muelleriana</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.3
<i>Heliotropium cunninghamii</i>	0.1	0.1
<i>Heliotropium pachyphyllum</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.2
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Tinospora smilacina</i>		0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	35

PHOTO



Site Name: WDD16
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 675803.36E 7663908.65N
 Landform Type: Drainage Line
 Slope Class: Level (0 degrees)
 Soil Type: Clayey Sand
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia acradenia*, *Acacia ancistrocarpa*, *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. *hispidula*, *Petalostylis labicheoides*
 Mid Stratum 2: *Corchorus parviflorus*, *Indigofera monophylla*
 Lower Stratum 1: *Chrysopogon fallax*, *Sorghum plumosum* var. *plumosum*, *Themeda triandra*, *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	5
<i>Acacia ancistrocarpa</i>	2	1
<i>Acacia inaequilatera</i>	0.5	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	1
<i>Bonamia erecta</i>	0.4	0.3
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cajanus pubescens</i>	2	1
<i>Cassytha capillaris</i>		0.1
<i>Chrysopogon fallax</i>	0.4	12
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	1	1.5
<i>Corymbia hamersleyana</i>	5	8
<i>Cucumis variabilis</i>	0.1	0.1
<i>Dampiera candidans</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.4	0.5
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia muelleriana</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.4	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	5
<i>Heliotropium pachyphyllum</i>	0.3	0.2
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.8	1
<i>Isotropis atropurpurea</i>	0.8	0.2
<i>Jasminum didymum</i> subsp. <i>lineare</i>	0.8	0.1
<i>Petalostylis labicheoides</i>	3	1
<i>Polymeria ambigua</i>	0.1	1
<i>Portulaca oleracea</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.2

<i>Rhynchosia minima</i>		0.1
<i>Senna notabilis</i>	0.4	0.1
<i>Solanum phlomoides</i>	0.6	0.1
<i>Sorghum plumosum</i> var. <i>plumosum</i>	0.5	10
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.5	0.1
<i>Themeda triandra</i>	1	3
<i>Tinospora smilacina</i>		0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	12

PHOTO

Site Name: WDD17
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 675884.56E 7663953.84N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Sandy Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Ironstone, Metamorphic, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia ancistrocarpa*
 Lower Stratum 1: *Triodia epactia*, *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2	10
<i>Acacia bivenosa</i>	2	0.5
<i>Acacia inaequilatera</i>	3	0.5
<i>Acacia stellaticeps</i>	0.8	0.4
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	0.6
<i>Bonamia erecta</i>	0.3	0.3
<i>Cassytha capillaris</i>		0.1
<i>Chrysopogon fallax</i>	0.5	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.7	0.2
<i>Indigofera monophylla</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.5	0.3
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.6	0.1
<i>Triodia epactia</i>	0.4	13
<i>Triodia lanigera</i>	0.4	22

PHOTO



Site Name: WDD18
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 673621.57E 7663686.7N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Clayey Sand
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 0%
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Acacia inaequilatera*
 Mid Stratum 1: *Acacia ancistrocarpa*, *Acacia pyrifolia* var. *pyrifolia*, *Grevillea wickhamii* subsp. *hispidula*
 Mid Stratum 2: *Bonamia erecta*, *Corchorus parviflorus*, *Triumfetta chaetocarpa*
 Lower Stratum 1: *Triodia schinzii*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	1.8	1
<i>Acacia inaequilatera</i>	2.5	0.4
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.3	0.6
<i>Bonamia erecta</i>	0.5	1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.8	0.3
<i>Eriachne obtusa</i>	0.3	0.1
<i>Goodenia microptera</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.4
<i>Heliotropium vestitum</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.4	0.2
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Portulaca oleracea</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.5	0.3
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia schinzii</i>	0.5	30
<i>Triumfetta chaetocarpa</i>	0.5	0.2

PHOTO



Site Name: WDD19
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 671576.9E 7661746.33N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Clayey Sand
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 0%
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia ancistrocarpa*
 Mid Stratum 2: *Bonamia erecta*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2	0.4
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.5	0.4
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	0.1
<i>Bonamia alatisemina</i>		0.1
<i>Bonamia erecta</i>	0.4	2
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.3	0.1
<i>Corchorus parviflorus</i>	0.5	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.3	0.1
<i>Eragrostis eriopoda</i>	0.3	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.2	0.1
<i>Goodenia microptera</i>	0.3	0.1
<i>Gossypium australe</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	1.6	0.3
<i>Sida clementii</i>	0.3	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	0.1
<i>Triodia lanigera</i>	0.6	40
<i>Triodia schinzii</i>	0.6	0.2

PHOTO



Site Name: WDD20
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 672090.74348911E 7661682.96065344N
 Landform Type: Ridge
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: E
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Dolerite, >50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Dolerite, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: < 5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*
 Mid Stratum 2: *Corchorus parviflorus*, *Gossypium australe*
 Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.2	0.1
<i>Acacia ancistrocarpa</i>	0.2	0.1
<i>Acacia inaequilatera</i>	3	0.2
<i>Boerhavia gardneri</i>	0.4	0.2
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.4	0.2
<i>Corymbia hamersleyana</i>	0.8	0.2
<i>Cymbopogon ambiguus</i>	0.3	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Enneapogon lindleyanus</i>		
<i>Eragrostis eriopoda</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.3	0.5
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.2	0.2
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.6	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Gossypium australe</i>	1	0.5
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.2	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.6	0.2
<i>Heliotropium pachyphyllum</i>	0.2	0.1
<i>Hibiscus coatesii</i>	0.4	0.1
<i>Hibiscus leptocladus</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.6	0.1
<i>Senna notabilis</i>	0.3	0.1
<i>Solanum phlomoides</i>	0.3	0.1

<i>Tephrosia clementii</i>	0.1	0.1
<i>Tephrosia densa</i>	0.3	0.1
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Tribulus platypterus</i>	0.6	0.1
<i>Tribulus suberosus</i>	0.5	0.2
<i>Trichodesma zeylanicum</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia wiseana</i>	0.3	12
<i>Triumfetta propinqua</i>	0.4	0.3

PHOTO

Site Name: WDD21
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 672201.52030945E 7662144.95094166N
 Landform Type: Lower Slope
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: W
 Soil Type: Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Metamorphic, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia inaequilatera*, *Acacia tumida* var. *pilbarensis*
 Mid Stratum 2: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	3
<i>Acacia ancistrocarpa</i>	2	0.5
<i>Acacia inaequilatera</i>	4	4
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	1.5
<i>Corymbia hamersleyana</i>	5	0.6
<i>Goodenia stobbsiana</i>	0.6	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.5	0.2
<i>Indigofera monophylla</i>	0.5	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	35

PHOTO



Site Name: WDD22
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 675704.52852803E 7663388.74744198N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia inaequilatera*
 Mid Stratum 2: *Acacia bivenosa*, *Codonocarpus cotinifolius*, *Senna glutinosa* subsp. *glutinosa*
 Lower Stratum 1: *Triodia chichesterensis*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	0.6	0.1
<i>Acacia bivenosa</i>	1.6	1
<i>Acacia inaequilatera</i>	2.5	1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Chrysopogon fallax</i>	0.4	0.1
<i>Codonocarpus cotinifolius</i>	1.6	0.6
<i>Corchorus parviflorus</i>	0.5	0.2
<i>Corymbia hamersleyana</i>	5	7
<i>Cucumis variabilis</i>		0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	1	0.1
<i>Haloragis gossei</i>	0.1	0.1
<i>Heliotropium pachyphyllum</i>	0.3	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Jasminum didymum</i> subsp. <i>lineare</i>	1.5	0.1
<i>Ptilotus astrolasius</i>	0.2	0.1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	1.2	0.2
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.6	0.6
<i>Sida fibulifera</i>	0.2	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tinospora smilacina</i>		0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	30
<i>Triodia epactia</i>	0.6	0.3

PHOTO



Site Name: WDD23
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 672696.51824139E 7661630.01558207N
 Landform Type: Crest
 Slope Class: Steep (23 degrees)
 Aspect: S
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Metamorphic (other), >50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Metamorphic (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: Half > 5 years and half around 2 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula*

Lower Stratum 1: *Triodia epactia*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.6	3.5
<i>Acacia ancistrocarpa</i>	0.4	0.1
<i>Aristida holathera</i> var. <i>holathera</i>	0.3	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Corymbia hamersleyana</i>	2.5	0.3
<i>Cymbopogon ambiguus</i>	0.3	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dampiera candidans</i>	0.4	0.1
<i>Eragrostis eriopoda</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.3	0.3
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.2
<i>Goodenia stobbsiana</i>	0.3	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	4
<i>Heliotropium skeleton</i>	0.4	0.1
<i>Hibiscus leptocladus</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.3	0.2
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.8	0.2
<i>Ptilotus fusiformis</i>	0.2	0.1
<i>Ptilotus incanus</i>	0.1	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Terminalia supranitifolia</i> (P3)	1.3	0.2
<i>Tribulus platypterus</i>	0.4	0.1
<i>Tribulus suberosus</i>	0.4	0.2
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.2	0.1
<i>Triodia epactia</i>	0.4	13
<i>Triodia wiseana</i>	0.4	9
<i>Triumfetta maconochieana</i>	0.4	0.1

<i>Triumfetta propinqua</i>	0.3	0.1
-----------------------------	-----	-----

PHOTO



Site Name: WDD24
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 672948.40232055E 7661370.83448441N
 Landform Type: Plain
 Slope Class: Level (0 degrees)
 Soil Type: Clayey Sand
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 0%
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*, *Corymbia zygophylla*

Mid Stratum 1: *Acacia ancistrocarpa*

Lower Stratum 1: *Triodia lanigera*, *Triodia schinzii*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia ancistrocarpa</i>	2.5	3
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	0.2
<i>Bonamia alatisemina</i>		0.1
<i>Bonamia erecta</i>	0.2	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	4	0.5
<i>Corymbia zygophylla</i>	4	3
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eragrostis eriopoda</i>	0.2	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia clementii</i> (P3)	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.1	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.6	0.2
<i>Indigofera monophylla</i>	0.4	0.1
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus fusiformis</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	2	0.8
<i>Senna notabilis</i>	0.1	0.1
<i>Solanum diversiflorum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Tinospora smilacina</i>		0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Trianthema pilosum</i>	0.1	0.1
<i>Trichodesma zeylanicum</i>	0.1	0.1
<i>Triodia epactia</i>	0.6	2
<i>Triodia lanigera</i>	0.6	14
<i>Triodia schinzii</i>	0.6	14
<i>Triumfetta chaetocarpa</i>	0.1	0.1
<i>Yakirra australiensis</i> var. <i>australiensis</i>	0.1	0.1

PHOTO



Site Name: WDK01
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/06/2019
 GPS Location: GDA94 Zone 50 675763.2784311E 7656809.165914N
 Landform Type: Mid Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: SE
 Soil Type: Sandy Clay
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Ironstone (other), 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >10 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia acradenia*, *Acacia inaequilatera*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1	0.1
<i>Acacia inaequilatera</i>	2	0.3
<i>Boerhavia gardneri</i>	0.3	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.2	0.1
<i>Gossypium australe</i>	0.1	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	0.6	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Nicotiana benthamiana</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1
<i>Swainsona formosa</i>	0.1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.4	0.1
<i>Triodia epactia</i>	0.8	70
<i>Triodia wiseana</i>	0.5	0.1
<i>Triumfetta propinqua</i>	0.1	0.1

PHOTO



Site Name: WDK02
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/06/2019
 GPS Location: GDA94 Zone 50 675732.76110709E 7656635.43418169N
 Landform Type: Lower Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: SE
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*

Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	3	0.3
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	1.5	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Swainsona formosa</i>	0.1	0.1
<i>Swainsona stenodonta</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	3
<i>Triodia epactia</i>	0.5	2
<i>Triodia wiseana</i>	0.7	60

PHOTO



Site Name: WDK03
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/06/2019
 GPS Location: GDA94 Zone 50 675676.98988454E 7656265.32676806N
 Landform Type: Hillock
 Slope Class: Very Steep (37 degrees)
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Shale (other), 20-50% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	0.5	0.1
<i>Boerhavia gardneri</i>	0.3	0.2
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	0.5	0.1
<i>Gossypium australe</i>	0.4	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.4	0.1
<i>Triodia epactia</i>	0.4	0.1
<i>Triodia wiseana</i>	0.5	50

PHOTO



Site Name: WDK04
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 675680.60679895E 7655262.24146023N
 Landform Type: Crest
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: SW
 Soil Type: Sandy Clay
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Ironstone, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*, *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. *hispidula*, *Petalostylis labicheoides*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.2	0.1
<i>Acacia orthocarpa</i>	3.5	5
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	2
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.4	0.5
<i>Indigofera monophylla</i>	0.5	0.1
<i>Petalostylis labicheoides</i>	2	0.2
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1
<i>Triodia epactia</i>	0.4	50

PHOTO



Site Name: WDK05
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 675753.72339223E 7655351.03581591N
 Landform Type: Mid Slope
 Slope Class: Steep (23 degrees)
 Aspect: E
 Soil Type: Sandy Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Ironstone, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia bivenosa*, *Senna glutinosa* subsp. *glutinosa*

Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.2	0.1
<i>Acacia bivenosa</i>	1.2	0.2
<i>Cassytha capillaris</i>		0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.2	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.5	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.5	0.2
<i>Senna notabilis</i>	0.1	0.1
<i>Senna symonii</i>	0.9	0.1
<i>Triodia epactia</i>	0.4	0.2
<i>Triodia wiseana</i>	0.5	65

PHOTO



Site Name: WDK06
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 675682.98548572E 7655796.01551992N
 Landform Type: Hillock
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: N
 Soil Type: Sandy Clay
 Soil Colour: White
 Rock Outcrop: Calcrete? (other), 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm
 CF Types: Ironstone, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia bivenosa*
 Lower Stratum 1: *Triodia chichesterensis*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	2.5	2
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	4	0.2
<i>Dysphania sphaerosperma</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Pluchea ferdinandi-muelleri</i>	0.4	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Ptilotus clementii</i>	0.1	0.1
<i>Senna symonii</i>	1.3	0.1
<i>Stackhousia muricata</i>	0.2	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.45	40
<i>Triodia wiseana</i>	0.4	0.1

PHOTO



Site Name: WDK07
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 676299.84237657E 7656119.15205472N
 Landform Type: Other, Low rise (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: N
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*

Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.2	0.2
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Dampiera candidans</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia muelleriana</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Ptilotus clementii</i>	0.1	0.1
? <i>Ptilotus helipteroides</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia epactia</i>	0.5	0.1
<i>Triodia lanigera</i>	0.5	35

PHOTO



Site Name: WDK08
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 676141.28413964E 7656576.14734893N
 Landform Type: Hillock
 Slope Class: Steep (23 degrees)
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*, *Acacia orthocarpa*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	2.5	1
<i>Acacia orthocarpa</i>	4	2
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	0.1
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Aristida contorta</i>	0.1	0.1
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	2.5	0.1
<i>Dampiera candidans</i>	0.4	0.1
<i>Eriachne mucronata</i>	0.5	0.1
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)	0.1	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	3
<i>Hakea lorea</i> subsp. <i>lorea</i>	2	0.1
<i>Hibiscus coatesii</i>	0.7	0.1
<i>Hybanthus aurantiacus</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Pluchea tetranthera</i>	0.6	0.1
<i>Polycarpaea longiflora</i>	0.2	0.1
<i>Pterocaulon sphacelatum</i>	0.1	0.1
<i>Rhodanthe margarethae</i>	0.2	0.1
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.4	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.2	0.1
<i>Senna notabilis</i>	0.3	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Tephrosia virens</i>	1.2	0.1
<i>Tinospora smilacina</i>	0.3	0.1

<i>Tribulus suberosus</i>	0.7	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	40

PHOTO

Site Name: WDK09
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 676327.56656757E 7656554.99701441N
 Landform Type: Other, Rock outcrop and surrounds (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: SE
 Soil Type: Sandy Loam
 Soil Colour: Orange
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia orthocarpa*, *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Triodia epactia*
 Lower Stratum 2: *Bulbostylis barbata*, *Calandrinia pumila*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.1	0.1
<i>Acacia orthocarpa</i>	2.5	1.5
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3.5	2.5
<i>Aristida contorta</i>	0.2	0.1
<i>Bonamia pannosa</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.2
<i>Byblis pilbarana</i>	0.1	0.1
<i>Calandrinia pumila</i>	0.1	0.5
<i>Cheilanthes brownii</i>	0.2	0.1
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.2	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	1.2	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Cyperus pulchellus</i>	0.2	0.1
<i>Cyperus squarrosus</i>	0.1	0.1
<i>Dampiera candidans</i>	0.2	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eragrostis cumingii</i>	0.1	0.1
<i>Eriachne obtusa</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)	0.1	0.1
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.4	0.1
<i>Fimbristylis dichotoma</i>	0.3	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gonocarpus ephemerus</i>	0.2	0.1
<i>Goodenia muelleriana</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.2
<i>Heliotropium tenuifolium</i>	0.2	0.1
<i>Hibiscus coatesii</i>	0.5	0.1

<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Nicotiana benthamiana</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Petalostylis labicheoides</i>	2	0.1
<i>Pluchea ferdinandi-muelleri</i>	0.4	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polycarpaea longiflora</i>	0.2	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Pterocaulon sphacelatum</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.8	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Schizachyrium fragile</i>	0.2	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.3	0.1
<i>Stemodia viscosa</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.1	0.1
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.3	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia epactia</i>	0.4	40
<i>Tripogonella loliiformis</i>	0.1	0.1
<i>Yakirra australiensis</i> var. <i>australiensis</i>	0.1	0.1

PHOTO

Site Name: WDK10
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 676129.83785774E 7657457.0782441N
 Landform Type: Mid Slope
 Slope Class: Precipitous (60 degrees)
 Aspect: SE
 Soil Type: Sandy Loam
 Soil Colour: Brown
 Rock Outcrop: Ironstone (other), 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Dolerite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >10 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Grevillea wickhamii* subsp. *hispidula*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.4	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.5	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.2
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.6	0.2
<i>Indigofera monophylla</i>	0.3	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.2	0.1
<i>Senna symonii</i>	0.5	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Triodia epactia</i>	0.4	1
<i>Triodia wiseana</i>	0.4	50

PHOTO



Site Name: WDK11
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 675712.76779843E 7657330.76694544N
 Landform Type: Crest
 Slope Class: Gently Inclined (3 degrees)
 Soil Type: Sandy Clay Loam
 Soil Colour: Red
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm, 600-2000mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus leucophloia* subsp. *leucophloia*
 Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.9	0.2
<i>Corymbia hamersleyana</i>	0.9	0.1
<i>Cymbopogon ambiguus</i>	0.4	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)	0.1	0.2
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	4.5	0.3
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.4	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.6	0.1
<i>Ptilotus incanus</i>	0.1	0.1
<i>Schizachyrium fragile</i>	0.1	0.1
<i>Stemodia grossa</i>	0.1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	30
<i>Triodia wiseana</i>	0.5	0.2
<i>Triumfetta propinqua</i>	0.1	0.1

PHOTO



Site Name: WDK12
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 676531.63E 7657145.63N
 Landform Type: Other, Low rise (other)
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*, *Triodia lanigera*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.4	1
<i>Acacia inaequilatera</i>	1.3	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Dampiera candidans</i>	0.8	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.5	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.1	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	25
<i>Triodia lanigera</i>	0.1	10
<i>Triodia wiseana</i>	0.8	5

PHOTO



Site Name: WDK13
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 676470.9540965E 7657056.25795333N
 Landform Type: Other, Low rise (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: SE
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Quartz, Shale (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Acacia inaequilatera*

Lower Stratum 1: *Triodia chichesterensis*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.5	0.5
<i>Acacia inaequilatera</i>	3	2
<i>Boerhavia gardneri</i>	0.3	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Corymbia hamersleyana</i>	3	0.2
<i>Cucumis variabilis</i>	0.6	0.1
<i>Cymbopogon ambiguus</i>	0.7	0.1
<i>Cyperus hesperius</i>	0.3	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.6	0.1
<i>Heliotropium tenuifolium</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polycarpaea holtzei</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Senna symonii</i>	1.2	0.1
<i>Solanum phlomoides</i>	0.7	0.1
<i>Swainsona formosa</i>	0.1	0.1
<i>Swainsona stenodonta</i>	0.2	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	60
<i>Triodia epactia</i>	0.9	0.1

PHOTO



Site Name: WDK14
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 676483.96498778E 7655171.3715125N
 Landform Type: Crest
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: ENE
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Acacia stellaticeps*
 Lower Stratum 2: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.8	1
<i>Acacia stellaticeps</i>	0.5	1
<i>Acacia synchronicia</i>	0.8	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Dampiera candidans</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Paraneurachne muelleri</i>	0.3	0.2
<i>Ptilotus astrolasius</i>	0.3	0.1
<i>Ptilotus calostachyus</i>	0.7	0.2
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia epactia</i>	0.5	0.1
<i>Triodia lanigera</i>	0.4	15
<i>Triodia wiseana</i>	0.5	1

PHOTO



Site Name: WDK15
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 676503.16622519E 7655489.82992135N
 Landform Type: Ridge
 Slope Class: Moderately Inclined (10 degrees)
 Soil Type: Sandy Clay
 Soil Colour: Red
 Rock Outcrop: Ironstone, 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*
 Lower Stratum 1: *Triodia epactia*, *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	2
<i>Acacia ancistrocarpa</i>	0.5	0.1
<i>Acacia orthocarpa x ancistrocarpa</i>	2.3	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.3	0.2
<i>Dampiera candidans</i>	0.4	0.1
<i>Dodonaea coriacea</i>	1.2	0.1
<i>Eriachne mucronata</i>	0.4	0.1
<i>Eriachne obtusa</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1
<i>Indigofera monophylla</i>	0.3	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	2.3	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Senna symonii</i>	1.4	0.1
<i>Seringia nephrosperma</i>	1.3	0.1
<i>Sida arenicola</i>	0.7	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.7	5
<i>Triodia lanigera</i>	0.6	5

PHOTO



Site Name: WDK16
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 676311.00594836E 7655678.35047173N
 Landform Type: Drainage Line
 Slope Class: Gently Inclined (3 degrees)
 Aspect: SE
 Soil Type: and Loam (other)
 Soil Colour: Very light brown pink (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: <2%
 CF Sizes: 2-6mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Grazing - Kangaroos
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia tumida* var. *pilbarensis*
 Lower Stratum 1: *Triodia epactia*
 Lower Stratum 2: *Corchorus parviflorus*, *Goodenia stobbsiana*, *Hybanthus aurantiacus*, *Ptilotus astrolasius*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	3	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4.5	15
* <i>Aerva javanica</i>	0.3	0.1
<i>Aristida holathera</i> var. <i>holathera</i>	0.5	0.1
<i>Bonamia alatisemina</i>	0.1	0.1
<i>Bonamia erecta</i>	0.7	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Cajanus pubescens</i>	1.2	0.5
<i>Chrysopogon fallax</i>	1.2	0.2
<i>Cleome viscosa</i>	0.1	0.1
<i>Clerodendrum tomentosum</i>	2	0.1
<i>Corchorus parviflorus</i>	0.9	0.3
<i>Corymbia hamersleyana</i>	2.5	0.2
<i>Cucumis variabilis</i>	0.2	0.1
<i>Cymbopogon ambiguus</i>	0.7	0.1
<i>Dampiera candidans</i>	0.3	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eragrostis cumingii</i>	0.1	0.1
<i>Eragrostis eriopoda</i>	0.3	0.1
<i>Eriachne mucronata</i>	0.3	0.1
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	0.1	0.1
<i>Goodenia forrestii</i>	0.3	0.3
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.5
<i>Gossypium australe</i>	0.2	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.2
<i>Indigofera monophylla</i>	0.4	0.1
<i>Isotropis atropurpurea</i>	0.3	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1

<i>Petalostylis labicheoides</i>	2	0.2
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polymeria ambigua</i>	0.1	0.1
<i>Portulaca oleracea</i>	0.1	0.1
<i>Pterocaulon sphacelatum</i>	0.3	0.1
<i>Ptilotus astrolasius</i>	0.3	0.2
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Senna symonii</i>	0.2	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	0.1
<i>Solanum diversiflorum</i>	0.1	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.4	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trichodesma zeylanicum</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia chichesterensis</i> (P3)	0.4	0.1
<i>Triodia epactia</i>	0.5	55

PHOTO

Site Name: WDK17
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 676668.03529119E 7660278.31473307N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: S
 Soil Type: Sandy Clay
 Soil Colour: Brown
 Rock Outcrop: Quartz (other), <2% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia inaequilatera*
 Lower Stratum 1: *Triodia chichesterensis*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	2.5	0.2
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Dysphania sphaerosperma</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Senna symonii</i>	0.6	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	55
<i>Triodia epactia</i>	0.6	0.1
<i>Triodia lanigera</i>	0.4	0.1

PHOTO



Site Name: WDK18
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 676627.98707811E 7660127.49526819N
 Landform Type: Other, Low rise (other)
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Sandy Clay Loam
 Soil Colour: Red
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia ancistrocarpa*, *Acacia inaequilatera*
 Lower Stratum 1: *Triodia lanigera*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.3	0.1
<i>Acacia ancistrocarpa</i>	2.5	0.3
<i>Acacia inaequilatera</i>	3	0.2
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	1.5	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Pluchea tetranthera</i>	0.4	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Senna symonii</i>	0.4	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia angusta</i>	0.5	0.2
<i>Triodia lanigera</i>	0.7	45

PHOTO



Site Name: WDK19
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 676216.54771362E 7659883.43549452N
 Landform Type: Drainage Line
 Slope Class: Gently Inclined (3 degrees)
 Aspect: NE
 Soil Type: Sandy Loam
 Soil Colour: Very pale brown-cream (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Riverstone (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Exotic Weeds
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Cajanus pubescens*, *Corchorus parviflorus*, *Hybanthus aurantiacus*
 Lower Stratum 2: *Swainsona formosa*, *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	0.1
<i>Acacia ancistrocarpa</i>	1	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	25
* <i>Aerva javanica</i>	0.4	0.1
<i>Aristida holathera</i> var. <i>holathera</i>	0.2	0.1
<i>Boerhavia schomburgkiana</i>		0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cajanus pubescens</i>	0.9	0.2
<i>Cassytha capillaris</i>		0.1
* <i>Cenchrus ciliaris</i>	0.4	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.6	5
<i>Corymbia hamersleyana</i>	5	1
<i>Cucumis variabilis</i>	0.2	0.1
<i>Dampiera candidans</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eragrostis cumingii</i>	0.1	0.1
<i>Eriachne obtusa</i>	0.4	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.1	0.1
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Gossypium australe</i>	0.6	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.6	2
<i>Hybanthus aurantiacus</i>	0.3	1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1

<i>Paspalidium raram</i>	0.1	0.1
<i>Perotis rara</i>	0.1	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Polymeria ambigua</i>	0.1	0.2
<i>Portulaca oleracea</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus auriculifolius</i>	0.3	0.1
<i>Ptilotus axillaris</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.7	0.1
<i>Ptilotus exaltatus</i>	0.2	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.1	0.1
<i>Striga squamigera</i>	0.2	0.1
<i>Swainsona formosa</i>	0.1	0.5
<i>Tinospora smilacina</i>	0.4	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Tribulus platypterus</i>	0.3	0.1
<i>Trichodesma zeylanicum</i>	0.2	0.1
<i>Trigastrotheca molluginea</i>	0.3	0.1
<i>Triodia brizoides</i>	0.3	0.1
<i>Triodia chichesterensis</i> (P3)	0.4	0.1
<i>Triodia epactia</i>	0.7	5
<i>Triodia lanigera</i>	0.4	0.1
<i>Triumfetta johnstonii</i>	0.4	0.1

PHOTO

Site Name: WDK20
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 670702.61572472E 7656167.77285833N
 Landform Type: Crest
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Quartz (other), 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 3 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Eucalyptus leucophloia* subsp. *leucophloia*
 Mid Stratum 1: *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula*
 Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.8	3
<i>Acacia tumida</i> var. <i>pilbarensis</i>	1.2	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Dampiera candidans</i>	0.4	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)	0.1	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	4.5	0.3
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.5
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.9	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.4	0.1
<i>Triodia epactia</i>	0.4	40
<i>Triodia wiseana</i>	0.8	0.1
<i>Triumfetta maconochieana</i>	0.4	0.1

PHOTO



Site Name: WDK21
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 670928.76221255E 7655696.18850427N
 Landform Type: Crest, and Upper Slope (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula*

Lower Stratum 1: *Triodia epactia*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.5	1.5
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Dampiera candidans</i>	0.4	0.1
<i>Eriachne mucronata</i>	0.2	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>		
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.5
<i>Ptilotus calostachyus</i>	0.4	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia brizoides</i>	0.4	0.1
<i>Triodia epactia</i>	0.6	55
<i>Triodia wiseana</i>	0.5	0.1

PHOTO



Site Name: WDK22
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 671261.83208967E 7655482.57468329N
 Landform Type: Upper Slope
 Slope Class: Steep (23 degrees)
 Aspect: S
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: With Some Shale Pockets (other), <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Lower Stratum 1: *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Boerhavia gardneri</i>	0.3	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	1.8	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.6	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Rhynchosia minima</i>	0.1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.2	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.1	0.1
<i>Triodia wiseana</i>	0.4	30

PHOTO



Site Name: WDK23
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 671135.60037935E 7655166.56127021N
 Landform Type: Lower Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: SE
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Ironstone, <2% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Dolerite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Upper Stratum 1: *Corymbia hamersleyana*
 Mid Stratum 1: *Acacia acradenia*, *Hakea lorea* subsp. *lorea*
 Lower Stratum 1: *Triodia chichesterensis*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	0.5
<i>Boerhavia gardneri</i>	0.3	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	0.9	0.2
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.8	0.1
<i>Indigofera rugosa</i>	0.6	0.2
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.5	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	60
<i>Triodia wiseana</i>	0.4	0.1

PHOTO



Site Name: WDK24
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 671110.33166718E 7655302.46086291N
 Landform Type: Mid Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: E
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Mixed Detrital (other), <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: >5 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula*

Lower Stratum 1: *Triodia brizoides*, *Triodia wiseana*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	15	0.5
<i>Boerhavia gardneri</i>	0.3	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.2
<i>Indigofera monophylla</i>	0.4	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus calostachyus</i>	0.7	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.3	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Triodia brizoides</i>	0.5	60
<i>Triodia wiseana</i>	0.6	2

PHOTO



Site Name: WDK25
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 670661.87361E 7655193.51806638N
 Landform Type: Upper Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: W
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Dolerite? Quartz? (other), 10-20% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Mixed, detrital (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 3 years

DOMINANT TAXA IN VEGETATION STRATA

Mid Stratum 1: *Acacia acradenia*, *Indigofera monophylla*, *Sida* sp. Pilbara (A.A. Mitchell PRP 1543), *Triumfetta propinqua*
 Lower Stratum 1: *Triodia brizoides*

SPECIES LIST

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.6	0.5
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cheilanthes contigua</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Cucumis variabilis</i>	0.1	0.1
<i>Cullen leucochaites</i>	0.5	0.1
<i>Cymbopogon ambiguus</i>	0.9	0.2
<i>Dampiera candidans</i>	0.4	0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.2	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.9	0.1
<i>Indigofera monophylla</i>	0.5	0.2
<i>Nicotiana benthamiana</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	0.2
<i>Solanum phlomoides</i>	0.5	0.1
<i>Tinospora smilacina</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.2	0.1
<i>Triodia brizoides</i>	0.5	40
<i>Triodia wiseana</i>	0.7	0.5
<i>Triumfetta maconochieana</i>	0.3	0.1
<i>Triumfetta propinqua</i>	0.5	0.2

PHOTO



Site Name: WDM01
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/06/2019
 GPS Location: GDA94 Zone 50 675798.08091646E 7654041.80434785N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: E
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2	0.2
<i>Acacia bivenosa</i>	3	0.3
<i>Acacia orthocarpa</i>	3.5	2.5
<i>Acacia spondylophylla</i>	0.7	0.6
<i>Bonamia pilbarensis</i>	0.2	0.1
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	0.4	0.1
<i>Codonocarpus cotinifolius</i>	3.5	0.3
<i>Corchorus parviflorus</i>	0.8	0.1
<i>Corymbia hamersleyana</i>	1	0.1
<i>Eriachne mucronata</i>	0.4	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.2
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Petalostylis labicheoides</i>	2	1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Ptilotus clementii</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.6	0.1
<i>Tribulus suberosus</i>	1	0.1
<i>Triodia chichesterensis</i> (P3)	0.2	10
<i>Triodia epactia</i>	0.4	5
<i>Triodia lanigera</i>	0.3	30
<i>Triodia wiseana</i>	0.6	15

PHOTO



Site Name: WDM02
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/06/2019
 GPS Location: GDA94 Zone 50 676277.06368747E 7653936.357875N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: E
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Dolerite, Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.6	0.1
<i>Acacia orthocarpa</i>	5	1.2
<i>Acacia orthocarpa x</i>	1.5	0.6
<i>Acacia spondylophylla</i>	0.6	0.2
<i>Acacia stellaticeps</i>	0.6	2
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Codonocarpus cotinifolius</i>	3	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.1
<i>Ptilotus astrolasius</i>	0.5	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Ptilotus clementii</i>	0.1	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia lanigera</i>	0.4	5
<i>Triodia wiseana</i>	0.5	25

PHOTO



Site Name: WDM03
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 17/06/2019
 GPS Location: GDA94 Zone 50 676463.96243484E 7654091.47014105N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: E
 Soil Type: Sandy Clay
 Soil Colour: Light brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: Limited Clearing - Minor track in quadrat
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	0.7	0.1
<i>Cassytha capillaris</i>		0.1
<i>Codonocarpus cotinifolius</i>	2	0.1
<i>Corymbia hamersleyana</i>	0.4	0.1
<i>Dysphania sphaerosperma</i>	0.1	0.1
<i>Heliotropium chrysocarpum</i>	0.2	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia angusta</i>	0.6	25
<i>Triodia chichesterensis</i> (P3)	0.2	3

PHOTO

Site Name: WDM04
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 675974.73503232E 7654957.15229322N
 Landform Type: Lower Slope
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: SW
 Soil Type: Light Clay
 Soil Colour: Light brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Ironstone, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	1.5	0.1
<i>Acacia</i> sp.	0.1	0.1
<i>Cassytha capillaris</i>		0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Pluchea ferdinandi-muelleri</i>	0.6	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Trianthema triquetrum</i>	0.1	0.1
<i>Triodia angusta</i>	0.6	15
<i>Triodia chichesterensis</i> (P3)	0.4	10
<i>Triodia wiseana</i>	0.8	5

PHOTO



Site Name: WDM05
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 676513.87611395E 7654939.74736052N
 Landform Type: Flat
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Sandy Clay
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 2-10%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - VG - Very Good
 Disturbance: Exotic Weeds - *Cenchrus ciliaris*
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia bivenosa</i>	3	5
<i>Acacia inaequilatera</i>	3	1.5
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.8	0.1
<i>Acacia stellaticeps</i>	1	0.3
* <i>Aerva javanica</i>	0.7	0.1
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Boerhavia schomburgkiana</i>	0.1	0.1
<i>Bonamia alatisemina</i>	0.2	0.1
<i>Bonamia erecta</i>	0.5	2
* <i>Cenchrus ciliaris</i>	0.6	3
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.5	0.3
? <i>Corymbia hamersleyana</i>	0.1	0.1
<i>Eragrostis eriopoda</i>	0.4	0.2
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	0.1	0.1
<i>Goodenia forrestii</i>	0.3	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia muelleriana</i>	0.2	0.1
<i>Gossypium australe</i>	0.1	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1.5	0.3
<i>Hakea lorea</i> subsp. <i>lorea</i>	2	1
<i>Heliotropium crispatum</i>	0.1	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera colutea</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.5	0.1
<i>Isotropis atropurpurea</i>	0.6	0.1
<i>Paraneurachne muelleri</i>	0.4	0.2
<i>Pluchea ferdinandi-muelleri</i>	1	0.1
<i>Pluchea tetranthera</i>	1	0.2
<i>Polymeria ambigua</i>	0.1	0.1
<i>Pterocaulon sphacelatum</i>	0.5	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1
<i>Solanum diversiflorum</i>	0.1	0.1
<i>Stemodia grossa</i>	0.6	0.1
<i>Streptoglossa decurrens</i>	0.1	0.1
<i>Swainsona formosa</i>	0.2	0.1

<i>Tephrosia rosea</i> var. <i>clementii</i>	0.2	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Trianthea pilosum</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Tribulus platypterus</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.4	0.1
<i>Trichodesma zeylanicum</i>	0.2	0.1
<i>Triodia epactia</i>	0.6	30

PHOTO

Site Name: WDM06
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 676293.53112767E 7654736.05352526N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: E
 Soil Type: Sandy Clay
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Riverstone (other)
 Vegetation Condition: Northern Vegetation Condition - P - Poor
 Disturbance: Exotic Weeds - *Cenchrus ciliaris*
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia coriacea</i> subsp. <i>pendens</i>	4	0.2
<i>Acacia inaequilatera</i>	2	0.3
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1	0.5
<i>Acacia spondylophylla</i>	0.6	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.1
<i>Adriana tomentosa</i> var. <i>tomentosa</i>	2.5	0.1
* <i>Aerva javanica</i>	0.6	0.1
<i>Alysicarpus muelleri</i>	0.2	0.1
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Boerhavia schomburgkiana</i>	0.1	0.1
<i>Byblis pilbarana</i>	0.1	0.1
<i>Cajanus pubescens</i>	1.5	0.1
<i>Calandrinia stagnensis</i>	0.1	0.1
* <i>Cenchrus ciliaris</i>	0.6	40
* <i>Cenchrus setiger</i>	0.5	0.3
<i>Chrysopogon fallax</i>	0.6	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.5	0.1
<i>Cymbopogon ambiguus</i>	0.4	0.1
<i>Cyperus squarrosus</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Dysphania sphaerosperma</i>	0.1	0.1
<i>Eriachne tenuiculmis</i>	0.4	0.1
<i>Eucalyptus victrix</i>	12	3
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1
<i>Euphorbia trigonosperma</i>	0.2	0.1
<i>Goodenia forrestii</i>	0.2	0.1
<i>Goodenia microptera</i>	0.3	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Hybanthus aurantiacus</i>	0.2	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Melaleuca linophylla</i>	3	0.6
<i>Petalostylis labicheoides</i>	2	0.1
<i>Phyllanthus maderaspatensis</i>	0.1	0.1
<i>Pluchea ferdinandi-muelleri</i>	0.8	0.1

<i>Pluchea rubelliflora</i>	0.2	0.1
<i>Polycarpaea longiflora</i>	0.4	0.1
<i>Portulaca oleracea</i>	0.1	0.1
<i>Pterocaulon sphacelatum</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.2	0.1
<i>Ptilotus exaltatus</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.1
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Stemodia grossa</i>	0.4	0.1
<i>Stemodia viscosa</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.2	0.1
<i>Swainsona formosa</i>	0.2	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.6	0.2
<i>Themeda triandra</i>	0.7	0.2
<i>Trianthema triquetrum</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trichodesma zeylanicum</i>	0.1	0.1
<i>Triodia epactia</i>	0.4	0.2

PHOTO

Site Name: WDM07
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 676387.84119996E 7654467.64277913N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: NNW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Ironstone, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: (other) - Historical disturbance in plot, possibly old gravel pits
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	4	0.2
<i>Acacia inaequilatera</i>	2	0.2
<i>Acacia orthocarpa</i>	3	2
<i>Acacia spondylophylla</i>	1	0.2
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Codonocarpus cotinifolius</i>	2.5	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.3	0.2
<i>Portulaca oleracea</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.4	0.1
<i>Ptilotus clementii</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.2	1
<i>Triodia epactia</i>	0.4	5
<i>Triodia lanigera</i>	0.4	30
<i>Triodia wiseana</i>	0.5	9

PHOTO



Site Name: WDM08
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 676540.79806549E 7654130.17365807N
 Landform Type: Flat
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Sandy Clay Loam
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Ironstone, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	3	1
<i>Acacia bivenosa</i>	0.6	0.1
<i>Acacia spondylophylla</i>	0.4	0.1
<i>Aristida holathera</i> var. <i>holathera</i>	0.6	0.1
<i>Bonamia erecta</i>	0.4	4
<i>Chrysopogon fallax</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.6	0.1
<i>Corymbia hamersleyana</i>	9	2
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eragrostis desertorum</i>	0.4	0.1
<i>Eriachne mucronata</i>	0.7	0.1
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.2
<i>Heliotropium tenuifolium</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Isotropis atropurpurea</i>	0.6	0.1
<i>Paraneurachne muelleri</i>	0.4	0.2
<i>Ptilotus astrolasius</i>	0.4	0.3
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.5	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia angusta</i>	0.4	0.1
<i>Triodia epactia</i>	0.6	0.1
<i>Triodia wiseana</i>	0.6	20

PHOTO



Site Name: WDM09
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 18/06/2019
 GPS Location: GDA94 Zone 50 676567.20693224E 7656764.35338394N
 Landform Type: Other, Undulating plain (other)
 Slope Class: Gently Inclined (3 degrees)
 Aspect: S
 Soil Type: Sandy Clay
 Soil Colour: Light brown (other)
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> sp.	0.1	0.1
<i>Acacia orthocarpa</i>	4	20
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	4
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.6	0.1
? <i>Corymbia hamersleyana</i>	0.1	0.1
<i>Dampiera candidans</i>	0.1	0.1
<i>Eragrostis cumingii</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)	0.1	0.1
<i>Fimbristylis dichotoma</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	4.5	1.5
<i>Heliotropium tenuifolium</i>	0.1	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.5	0.1
<i>Hybanthus aurantiacus</i>	0.1	0.1
<i>Indigofera monophylla</i>	0.4	0.1
<i>Mitrasacme connata</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Petalostylis labicheoides</i>	2.2	0.1
<i>Polycarpaea corymbosa</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Pterocaulon sphacelatum</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Schizachyrium fragile</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.7	35

PHOTO



Site Name: WDM10
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 676084.22447017E 7658834.19401095N
 Landform Type: Mid Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: SE
 Soil Type: Sandy Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	1.4
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cheilanthes contigua</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Cymbopogon ambiguus</i>	0.4	0.1
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gossypium australe</i>	0.8	0.4
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.6	0.1
<i>Indigofera monophylla</i>	0.2	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.5	0.1
<i>Tephrosia densa</i>	0.1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	1.5
<i>Triodia wiseana</i>	0.7	30

PHOTO



Site Name: WDM11
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 675955.26606599E 7658934.89102684N
 Landform Type: Crest
 Slope Class: Gently Inclined (3 degrees)
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.1	20
<i>Corymbia hamersleyana</i>	2.4	0.3
<i>Dampiera candidans</i>	0.5	0.1
<i>Goodenia stobbsiana</i>	0.4	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.3	2.5
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Triodia epactia</i>	0.6	35

PHOTO

Site Name: WDM12
 Site Type: QUADRAT
 Dimensions: 25m x 100m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 676531.85195953E 7658900.70916503N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Soil Type: Sandy Clay
 Soil Colour: Brown
 Rock Outcrop: No bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Riverstone (other)
 Vegetation Condition: Northern Vegetation Condition - P - Poor
 Disturbance: Exotic Weeds - *Cenchrus ciliaris*
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	3.5	0.3
<i>Acacia inaequilatera</i>	1.6	0.1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	6	1
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Boerhavia schomburgkiana</i>	0.1	0.1
<i>Cajanus pubescens</i>	2	0.1
* <i>Cenchrus ciliaris</i>	0.6	60
<i>Chrysopogon fallax</i>	0.5	0.3
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.6	0.3
? <i>Corymbia hamersleyana</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	8	10
<i>Cymbopogon ambiguus</i>	0.6	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.2	0.1
<i>Euphorbia trigonosperma</i>	0.2	0.1
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	0.1	0.1
<i>Goodenia forrestii</i>	0.1	0.1
<i>Gossypium australe</i>	1.5	0.4
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	3	0.3
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.3	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.6	0.1
<i>Hybanthus aurantiacus</i>	0.3	0.1
<i>Indigofera monophylla</i>	0.6	0.2
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Polymeria ambigua</i>		0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Senna symonii</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.4	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.6	0.2
<i>Themeda triandra</i>	0.7	0.2
<i>Trichodesma zeylanicum</i>	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.5	0.5
<i>Triodia wiseana</i>	0.7	0.2
<i>Triumfetta johnstonii</i>	0.4	0.1

PHOTO



Site Name: WDM13
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 676561.03041843E 7659045.44471491N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: SE
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Granite, <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.2	1
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.2	1
<i>Paraneurachne muelleri</i>	0.4	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	4
<i>Triodia epactia</i>	0.4	0.1
<i>Triodia lanigera</i>	0.6	25
<i>Triodia wiseana</i>	0.6	4

PHOTO



Site Name: WDM14
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 676642.53738351E 7659130.27126527N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: SE
 Soil Type: Sandy Clay
 Soil Colour: Light brown (other)
 Rock Outcrop: Quartz (other), 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	0.2
<i>Acacia inaequilatera</i>	2	0.2
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.2	60
<i>Triodia epactia</i>	0.4	0.1
<i>Triodia wiseana</i>	0.6	0.5

PHOTO

Site Name: WDM15
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 676490.09548033E 7659288.13630616N
 Landform Type: Ridge
 Slope Class: Very Steep (37 degrees)
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.5	0.3
<i>Acacia inaequilatera</i>	1.3	0.1
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.3	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.3	0.1
<i>Cyperus hesperius</i>	0.2	0.1
<i>Eriachne mucronata</i>	0.4	0.2
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gossypium australe</i>	1.3	0.3
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	0.1
<i>Indigofera monophylla</i>	0.4	0.2
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polycarpaea corymbosa</i>	0.2	0.1
<i>Polycarpaea longiflora</i>	0.1	0.1
<i>Ptilotus incanus</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.1	0.2
<i>Tephrosia virens</i>	0.8	0.2
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.4	0.1
<i>Triodia epactia</i>	0.6	3
<i>Triodia wiseana</i>	0.7	27
<i>Triumfetta maconochieana</i>	0.5	2

PHOTO



Site Name: WDM16
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 19/06/2019
 GPS Location: GDA94 Zone 50 676298.12881887E 7659392.50018619N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: NW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	0.6
<i>Acacia inaequilatera</i>	1.7	0.1
<i>Acacia stellaticeps</i>	0.6	2.5
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Dampiera candidans</i>	0.2	0.1
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>	8	4
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.7	0.1
<i>Senna symonii</i>	0.5	0.1
<i>Triodia brizoides</i>	0.5	12
<i>Triodia chichesterensis</i> (P3)	0.2	0.1
<i>Triodia epactia</i>	0.5	0.2
<i>Triodia lanigera</i>	0.3	12

PHOTO



Site Name: WDM17
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 675499.93703235E 7658739.89264682N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: WSW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite, Dolerite, Ironstone
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.8	10
<i>Acacia inaequilatera</i>	1.9	0.5
<i>Acacia orthocarpa</i>	2.2	0.3
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.7	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.5	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Triodia brizoides</i>	0.6	23
<i>Triodia epactia</i>	0.6	7

PHOTO



Site Name: WDM18
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 676524.01553997E 7658343.96271061N
 Landform Type: Upper Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: NW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Granite, >50% bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.5	25
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Corymbia hamersleyana</i>	4.5	0.2
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dampiera candidans</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.2	0.2
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	5
<i>Indigofera monophylla</i>	0.6	0.1
<i>Polycarpaea corymbosa</i>	0.2	0.1
<i>Polycarpaea longiflora</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Tephrosia virens</i>	0.5	0.1
<i>Triodia epactia</i>	0.4	22
<i>Triodia wiseana</i>	0.5	8
<i>Triumfetta maconochieana</i>	0.3	0.1

PHOTO



Site Name: WDM19
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 676197.06773749E 7658324.32264935N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Aspect: NW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	2.2	20
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia stobbsiana</i>	0.4	0.3
<i>Ptilotus calostachyus</i>	0.3	0.1
<i>Senna symonii</i>	1.3	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia epactia</i>	0.6	25

PHOTO

Site Name: WDM20
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 675881.41041016E 7658223.94882918N
 Landform Type: Lower Slope
 Slope Class: Gently Inclined (3 degrees)
 Soil Type: Sandy Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, 2-10% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Ironstone, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.6	0.3
<i>Acacia inaequilatera</i>	2	0.3
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Cassytha capillaris</i>		0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.4	0.1
<i>Corymbia hamersleyana</i>	4.5	0.2
? <i>Corymbia hamersleyana</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Senna notabilis</i>	0.1	0.1
<i>Swainsona formosa</i>	0.1	0.1
<i>Tephrosia virens</i>	0.2	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	40
<i>Triodia epactia</i>	0.3	0.2
<i>Triodia wiseana</i>	0.6	5

PHOTO



Site Name: WDM21
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 675500.66621333E 7658467.17332888N
 Landform Type: Lower Slope
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: SW
 Soil Type: Clayey Sand
 Soil Colour: Light brown (other)
 Rock Outcrop: No bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm
 CF Types: Granite, Ironstone, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	2.5	0.6
<i>Corymbia hamersleyana</i>	5	2
<i>Dysphania sphaerosperma</i>	0.1	0.1
<i>Salsola australis</i>	0.1	0.1
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	18
<i>Triodia wiseana</i>	0.6	7

PHOTO

Site Name: WDM22
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 20/06/2019
 GPS Location: GDA94 Zone 50 675239.85653386E 7658543.24919295N
 Landform Type: Crest
 Slope Class: Moderately Inclined (10 degrees)
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Same As Outcrop Photo From Wdm21 (other), 10-20% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia inaequilatera</i>	2	0.2
<i>Acacia orthocarpa</i>	4	6
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Cassytha capillaris</i>		0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	1.5	0.2
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Crotalaria novae-hollandiae</i> subsp. <i>novae-hollandiae</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Fimbristylis simulans</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Hakea lorea</i> subsp. <i>lorea</i>	2	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.2	0.1
<i>Solanum phlomoides</i>	0.6	0.1
<i>Tribulus suberosus</i>	0.6	0.1
<i>Triodia chichesterensis</i> (P3)	0.2	0.1
<i>Triodia wiseana</i>	0.6	28

PHOTO



Site Name: WDM23
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 670398.88018432E 7654534.24438193N
 Landform Type: Crest
 Slope Class: Moderately Inclined (10 degrees)
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Granite, 20-50% bedrock exposed
 CF Abundance: 50-90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years and some < 5 years (eastern side)

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.4	5
<i>Amaranthus undulatus</i>	0.1	0.1
<i>Aristida burbridgeae</i>	0.5	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cheilanthes contigua</i>	0.1	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Corchorus parviflorus</i>	0.6	0.3
<i>Corymbia hamersleyana</i>	0.3	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.3	0.2
<i>Cyperus hesperius</i>	0.2	0.1
<i>Dampiera candidans</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.4
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	0.1	0.1
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Goodenia microptera</i>	0.1	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1.6	0.6
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	5
<i>Indigofera monophylla</i>	0.3	0.1
<i>Nicotiana benthamiana</i>	0.1	0.1
<i>Notoleptopus decaisnei</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Paspalidium tabulatum</i>	0.1	0.1
<i>Peripleura virgata</i>	0.2	0.1
<i>Polycarpaea longiflora</i>	0.1	0.1
<i>Ptilotus astrolasius</i>	0.3	0.2
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.8	0.1
<i>Solanum horridum</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.1	0.1
<i>Terminalia circumalata</i>	8	3
<i>Themeda triandra</i>	0.4	0.1
<i>Tinospora smilacina</i>		0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Tribulus suberosus</i>	0.4	0.1

<i>Trichosanthes cucumerina</i> var. <i>cucumerina</i>		0.1
<i>Triodia brizoides</i>	0.4	15
<i>Triodia wiseana</i>	0.4	10
<i>Triumfetta maconochieana</i>	0.5	0.1

PHOTO

Site Name: WDM24
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 670923.74728204E 7654524.47742276N
 Landform Type: Ridge
 Slope Class: Precipitous (60 degrees)
 Soil Type: Sandy Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Quartz (other), >50% bedrock exposed
 CF Abundance: 20-50%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm, 200-600mm
 CF Types: Granite, Quartz (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	1.2	1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.2	0.1
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>	2	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.2	0.1
<i>Cyperus hesperius</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eriachne mucronata</i>	0.3	0.3
<i>Euphorbia careyi</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	2.2	0.1
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	5
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Streptoglossa decurrens</i>	0.1	0.1
<i>Terminalia supranitifolia</i> (P3)	2.5	3
<i>Tinospora smilacina</i>		0.1
<i>Triodia wiseana</i>	0.7	25
<i>Triumfetta maconochieana</i>	0.1	0.1

PHOTO



Site Name: WDM25
 Site Type: QUADRAT
 Dimensions: 12.5m x 200m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 671224.05E 7654426.8N
 Landform Type: Drainage Line
 Slope Class: Very Gently Inclined (1 degree)
 Aspect: S
 Soil Type: Clay Loam
 Soil Colour: Brown
 Rock Outcrop: Granite, 2-10% bedrock exposed
 CF Abundance: 10-20%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm
 CF Types: Riverstone (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Abutilon</i> aff. <i>hannii</i>	0.3	0.1
<i>Acacia acradenia</i>	0.8	0.1
<i>Acacia bivenosa</i>	2.2	0.5
<i>Acacia coriacea</i> subsp. <i>pendens</i>	1.6	0.2
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2.5	1
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	0.6
<i>Amaranthus undulatus</i>	0.1	0.2
<i>Ammannia baccifera</i>	0.2	0.2
<i>Boerhavia gardneri</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cajanus pubescens</i>	0.5	0.2
* <i>Cenchrus ciliaris</i>	0.3	0.1
<i>Cheilanthes contigua</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Clerodendrum tomentosum</i>	0.5	0.1
<i>Corchorus parviflorus</i>	0.6	0.2
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	0.3	0.1
<i>Cucumis variabilis</i>		0.1
<i>Cymbopogon ambiguus</i>	0.2	0.2
<i>Cyperus squarrosus</i>	0.1	0.1
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1
<i>Eragrostis cumingii</i>	0.3	0.1
<i>Eriachne tenuiculmis</i>	0.2	0.1
<i>Eucalyptus victrix</i>	9	12
<i>Euphorbia biconvexa</i>	0.1	0.1
<i>Euphorbia careyi</i>	0.1	0.2
<i>Euphorbia clementii</i> (P3)	0.2	0.1
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.2	0.2
<i>Euphorbia trigonosperma</i>	0.1	0.1
* <i>Flaveria trinervia</i>	0.4	0.2
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1.6	0.2
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Gossypium australe</i>	0.4	0.4
<i>Hybanthus aurantiacus</i>	0.4	0.2
<i>Jasminum didymum</i> subsp. <i>lineare</i>	0.7	0.2

<i>Melaleuca linophylla</i>	2.5	25
<i>Nicotiana benthamiana</i>	0.1	0.2
<i>Notoleptopus decaisnei</i>	0.1	0.2
<i>Oldenlandia crouchiana</i>	0.1	0.3
<i>Operculina aequisejala</i>	0.1	0.2
<i>Paspalidium clementii</i>	0.2	0.1
<i>Paspalidium tabulatum</i>	0.2	0.1
<i>Phyllanthus maderaspatensis</i>	0.2	0.3
<i>Pluchea rubelliflora</i>	0.2	0.4
<i>Polycarpaea longiflora</i>	0.1	0.2
<i>Polymeria ambigua</i>		0.2
<i>Pterocaulon sphacelatum</i>	0.1	1.5
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Rhynchosia minima</i>		0.1
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	0.5	0.3
<i>Senna notabilis</i>	0.1	0.1
<i>Sesbania cannabina</i>	0.4	3
<i>Solanum horridum</i>	0.1	0.1
<i>Solanum phlomoides</i>	0.1	0.2
<i>Sporobolus australasicus</i>	0.1	0.1
<i>Stemodia grossa</i>	0.1	0.4
<i>Swainsona formosa</i>	0.1	0.4
<i>Tephrosia densa</i>	0.5	0.1
<i>Tephrosia rosea</i> var. <i>clementii</i>	1.4	0.2
<i>Terminalia circumalata</i>	7	2
<i>Tinospora smilacina</i>		0.2
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.2
<i>Tribulus hirsutus</i>	0.1	0.1
<i>Trichodesma zeylanicum</i>	0.2	0.2
<i>Trichosanthes cucumerina</i> var. <i>cucumerina</i>		0.1
<i>Triodia brizoides</i>	0.2	5
<i>Triodia wiseana</i>	0.6	15
<i>Triumfetta maconochieana</i>	0.4	0.2

PHOTO



Site Name: WDM26
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 671134.8996902E 7654351.10525668N
 Landform Type: Upper Slope
 Slope Class: Very Steep (37 degrees)
 Aspect: SE
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Dolerite (other), 2-10% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Dolerite, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: 5-10 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1.6	0.1
<i>Indigofera monophylla</i>	0.1	0.1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Polygala glaucifolia</i>	0.1	0.1
<i>Stackhousia muricata</i>	0.2	0.1
<i>Tephrosia densa</i>	0.1	0.1
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.3	5
<i>Triodia wiseana</i>	0.8	30

PHOTO



Site Name: WDM27
 Site Type: QUADRAT
 Dimensions: 50m x 50m
 Survey Date: 21/06/2019
 GPS Location: GDA94 Zone 50 670611.0849716E 7654191.6864771N
 Landform Type: Lower Slope
 Slope Class: Moderately Inclined (10 degrees)
 Aspect: NW
 Soil Type: Sandy Clay Loam
 Soil Colour: Red-Brown (other)
 Rock Outcrop: Dolerite (other), <2% bedrock exposed
 CF Abundance: >90%
 CF Sizes: 2-6mm, 6-20mm, 20-60mm, 60-200mm
 CF Types: Granite, Dolerite, Quartz, Calcrete (other)
 Vegetation Condition: Northern Vegetation Condition - E - Excellent
 Disturbance: None
 Fire: < 5 years

DOMINANT TAXA IN VEGETATION STRATA**SPECIES LIST**

Taxon Name	Avg. Height	Cover Alive
<i>Acacia acradenia</i>	0.2	0.1
<i>Boerhavia gardneri</i>	0.2	0.1
<i>Bonamia pilbarensis</i>	0.1	0.1
<i>Bulbostylis barbata</i>	0.1	0.1
<i>Cleome viscosa</i>	0.1	0.1
<i>Corchorus parviflorus</i>	0.5	15
<i>Dampiera candidans</i>	0.3	0.2
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)	0.1	0.1
<i>Gomphrena cunninghamii</i>	0.1	0.1
<i>Indigofera rugosa</i>	0.3	1
<i>Oldenlandia crouchiana</i>	0.1	0.1
<i>Ptilotus auriculifolius</i>	0.1	0.1
<i>Ptilotus calostachyus</i>	0.2	0.1
<i>Solanum phlomoides</i>	0.2	0.1
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	0.1
<i>Trigastrotheca molluginea</i>	0.1	0.1
<i>Triodia chichesterensis</i> (P3)	0.2	18
<i>Triodia wiseana</i>	0.4	2

PHOTO



Appendix L: Matrix of Vascular Plant Taxa Recorded within Each Vegetation Unit Described in the Study Area

Taxon	Vegetation Unit														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>Abutilon</i> aff. <i>hannii</i> , <i>Abutilon</i> aff. <i>hannii</i>														X	
<i>Abutilon</i> sp. <i>Pilbara</i> (W.R. Barker 2025)											X				
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)					X	X			X				X	X	
<i>Acacia acradenia</i>	X	X	X	X	X	X	X		X	X	X	X	X	X	
<i>Acacia ancistrocarpa</i>	X	X		X		X			X	X	X	X		X	
<i>Acacia bivenosa</i>				X	X			X		X	X	X		X	
<i>Acacia colei</i> var. <i>colei</i>														X	
<i>Acacia coriacea</i> subsp. <i>pendens</i>									X					X	
<i>Acacia inaequilatera</i>	X	X		X	X	X	X	X	X	X	X	X	X	X	
<i>Acacia maitlandii</i>		X											X	X	
<i>Acacia orthocarpa</i>	X	X			X		X	X	X		X	X	X	X	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>									X	X	X			X	
<i>Acacia spondylophylla</i>		X		X	X			X	X		X		X	X	
<i>Acacia stellaticeps</i>	X	X			X			X		X	X	X			
<i>Acacia synchronica</i>	X														X
<i>Acacia trachycarpa</i>														X	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	X	X	X		X				X	X	X	X	X	X	
<i>Adriana tomentosa</i> var. <i>tomentosa</i>														X	
* <i>Aerva javanica</i>						X			X		X			X	
<i>Alysicarpus muelleri</i>														X	
<i>Amaranthus interruptus</i>			X						X						
<i>Amaranthus undulatus</i>		X		X					X		X		X	X	
<i>Ammannia baccifera</i>														X	
<i>Aristida burbidgeae</i>									X					X	
<i>Aristida contorta</i>											X		X		
<i>Aristida holathera</i> var. <i>holathera</i>	X		X						X	X	X		X	X	
<i>Atalaya hemiglauca</i>														X	
<i>Boerhavia coccinea</i>	X	X	X	X	X	X			X	X	X			X	
<i>Boerhavia gardneri</i>		X		X	X	X	X		X		X	X	X	X	
<i>Boerhavia repleta</i>														X	
<i>Boerhavia schomburgkiana</i>									X		X			X	

Taxon	Vegetation Unit														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>Bonamia alatisemina</i>	X	X								X	X		X	X	
<i>Bonamia erecta</i>	X									X	X	X		X	
<i>Bonamia pannosa</i>											X		X		
<i>Bonamia pilbarensis</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Bulbostylis barbata</i>	X	X	X	X	X	X	X	X	X	X	X		X	X	
<i>Byblis pilbarana</i>													X	X	
<i>Cajanus pubescens</i>							X				X			X	
<i>Calandrinia pumila</i>													X		
<i>Calandrinia stagnensis</i>														X	
<i>Cassytha capillaris</i>		X	X	X	X	X		X	X	X	X	X	X	X	
* <i>Cenchrus ciliaris</i>									X		X	X		X	X
* <i>Cenchrus setiger</i>											X			X	
<i>Cheilanthes brownii</i>									X				X		
<i>Cheilanthes contigua</i>			X	X					X					X	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>													X		
<i>Chrysopogon fallax</i>										X	X	X		X	
<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i> , <i>Clerodendrum tomentosum</i>				X			X		X	X	X			X	
<i>Cleome uncifera</i> subsp. <i>uncifera</i>	X	X			X	X				X	X	X	X		
<i>Cleome viscosa</i>	X	X	X	X	X	X	X	X	X	X	X		X	X	
<i>Codonocarpus cotinifolius</i>	X	X	X		X			X			X	X			
<i>Corymbia hamersleyana</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Corchorus ?incanus</i> subsp. <i>incanus</i>	X													X	
<i>Corchorus parviflorus</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Corchorus tridens</i>														X	
<i>Corymbia zygomphylla</i>										X					
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>							X							X	
<i>Crotalaria novae-hollandiae</i> subsp. <i>novae-hollandiae</i>									X					X	
<i>Cucumis variabilis</i>		X		X					X		X	X	X	X	
<i>Cullen leucanthum</i>														X	
<i>Cullen leucochaites</i>					X		X		X				X	X	

Taxon	Vegetation Unit														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>Cullen martinii</i>											X				
<i>Cymbopogon ambiguus</i>			X	X	X		X		X		X		X	X	
* <i>Cynodon dactylon</i>														X	
<i>Cynodon prostratus</i>	X														X
<i>Cyperus hesperius</i>		X	X	X					X				X	X	
<i>Cyperus pulchellus</i>													X		
<i>Cyperus squarrosus</i>													X	X	
<i>Cyperus vaginatus</i>														X	
<i>Dactyloctenium radulans</i>														X	
<i>Dampiera candidans</i>	X	X	X	X	X		X		X	X	X		X	X	
<i>Desmodium filiforme</i>													X		
<i>Dichanthium fecundum</i>														X	
<i>Digitaria brownii</i>											X				
<i>Dodonaea coriacea</i>				X	X				X		X	X			
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>		X	X	X	X	X	X		X	X	X		X	X	
<i>Dysphania sphaerosperma</i>	X					X		X						X	
<i>Enneapogon caeruleus</i>				X	X		X		X					X	
<i>Enneapogon lindleyanus</i>						X			X					X	
<i>Eragrostis cumingii</i>											X		X	X	
<i>Eragrostis desertorum</i>											X				
<i>Eragrostis eriopoda</i>	X								X	X	X	X			
* <i>Eragrostis minor</i>											X				
<i>Eragrostis speciosa</i>														X	
<i>Eragrostis tenellula</i>														X	
<i>Eriachne aristidea</i>					X				X		X		X		
<i>Eriachne benthamii</i>														X	
<i>Eriachne mucronata</i>			X	X	X	X			X	X	X	X	X	X	
<i>Eriachne obtusa</i>	X			X	X					X	X		X	X	
<i>Eriachne pulchella</i> subsp. <i>dominii</i>	X	X	X	X	X	X	X	X	X	X	X		X	X	X
<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)		X	X	X	X				X				X		

Taxon	Vegetation Unit														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>Eriachne tenuiculmis</i>											X			X	
<i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>		X	X	X					X				X	X	
<i>Eucalyptus victrix</i>														X	
<i>Eulalia aurea</i>											X			X	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	X	X			X	X	X		X	X	X		X	X	
<i>Euphorbia biconvexa</i>														X	
<i>Euphorbia careyi</i>			X	X	X		X		X		X		X	X	
<i>Euphorbia clementii</i> (P3)		X								X	X	X	X	X	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>		X		X	X				X	X	X	X	X	X	
<i>Euphorbia trigonosperma</i>	X								X	X	X			X	
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>		X				X					X	X	X	X	
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>											X		X	X	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>				X					X				X		
<i>Ficus brachypoda</i>			X						X						
<i>Fimbristylis dichotoma</i>	X	X	X	X				X	X				X	X	X
<i>Fimbristylis elegans</i>									X					X	
<i>Fimbristylis rara</i>														X	
<i>Fimbristylis simulans</i>	X	X	X	X	X	X	X	X	X	X	X		X		
* <i>Flaveria trinervia</i>									X					X	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>									X				X	X	
<i>Gomphrena cunninghamii</i>		X	X	X	X	X	X		X		X		X	X	
<i>Gonocarpus ephemerus</i>													X		
<i>Goodenia cusackiana</i>									X						
<i>Goodenia forrestii</i>					X						X			X	
<i>Goodenia microptera</i>	X	X	X	X	X	X			X	X	X	X	X	X	
<i>Goodenia muelleriana</i>	X					X			X	X	X	X	X	X	
<i>Goodenia stobsiana</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Goodenia triodiophila</i>														X	
<i>Gossypium australe</i>		X		X				X	X	X	X		X	X	
<i>Gossypium robinsonii</i>							X								
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>		X		X	X	X	X		X		X		X	X	

Taxon	Vegetation Unit														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	X	X	X	X	X	X	X		X	X	X	X	X	X	
<i>Hakea lorea</i> subsp. <i>lorea</i>	X	X	X	X	X	X	X		X	X	X	X	X	X	
<i>Haloragis gossei</i> var. <i>gossei</i> , <i>Haloragis gossei</i>						X					X	X			
<i>Halgania solanacea</i> var. <i>solanacea</i> ms										X					
<i>Heliotropium chryso carpum</i>								X				X			
<i>Heliotropium crispatum</i>											X				
<i>Heliotropium cunninghamii</i>		X			X	X			X	X	X	X	X	X	
<i>Heliotropium pachyphyllum</i>					X				X	X	X	X	X	X	
<i>Heliotropium skeleton</i>	X		X		X				X		X				
<i>Heliotropium tenuifolium</i>				X							X	X	X	X	
<i>Heliotropium vestitum</i>										X					
<i>Hibiscus coatesii</i>				X	X				X				X	X	
<i>Hibiscus goldsworthii</i>									X						
<i>Hibiscus leptocladus</i>									X		X		X	X	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>				X					X	X	X	X	X	X	
<i>Hybanthus aurantiacus</i>				X	X	X			X	X	X	X	X	X	
<i>Indigofera colutea</i>											X			X	
<i>Indigofera linifolia</i>							X							X	
<i>Indigofera monophylla</i>	X	X	X	X	X	X	X		X	X	X	X	X	X	
<i>Indigofera rugosa</i>					X		X		X			X	X		
<i>Indigofera trita</i>									X					X	
<i>Ipomoea muelleri</i>													X	X	
<i>Isotropis atropurpurea</i>											X		X	X	
<i>Jasminum didymum</i> subsp. <i>lineare</i>			X						X		X	X		X	
<i>Lepidium ?pholidogynum</i>											X			X	
<i>Leptosema anomalum</i>										X					
<i>Maireana</i> sp.															X
<i>Mallotus nesophilus</i>									X						
<i>Melaleuca glomerata</i>														X	
<i>Melaleuca linophylla</i>														X	
<i>Melhania oblongifolia</i>														X	

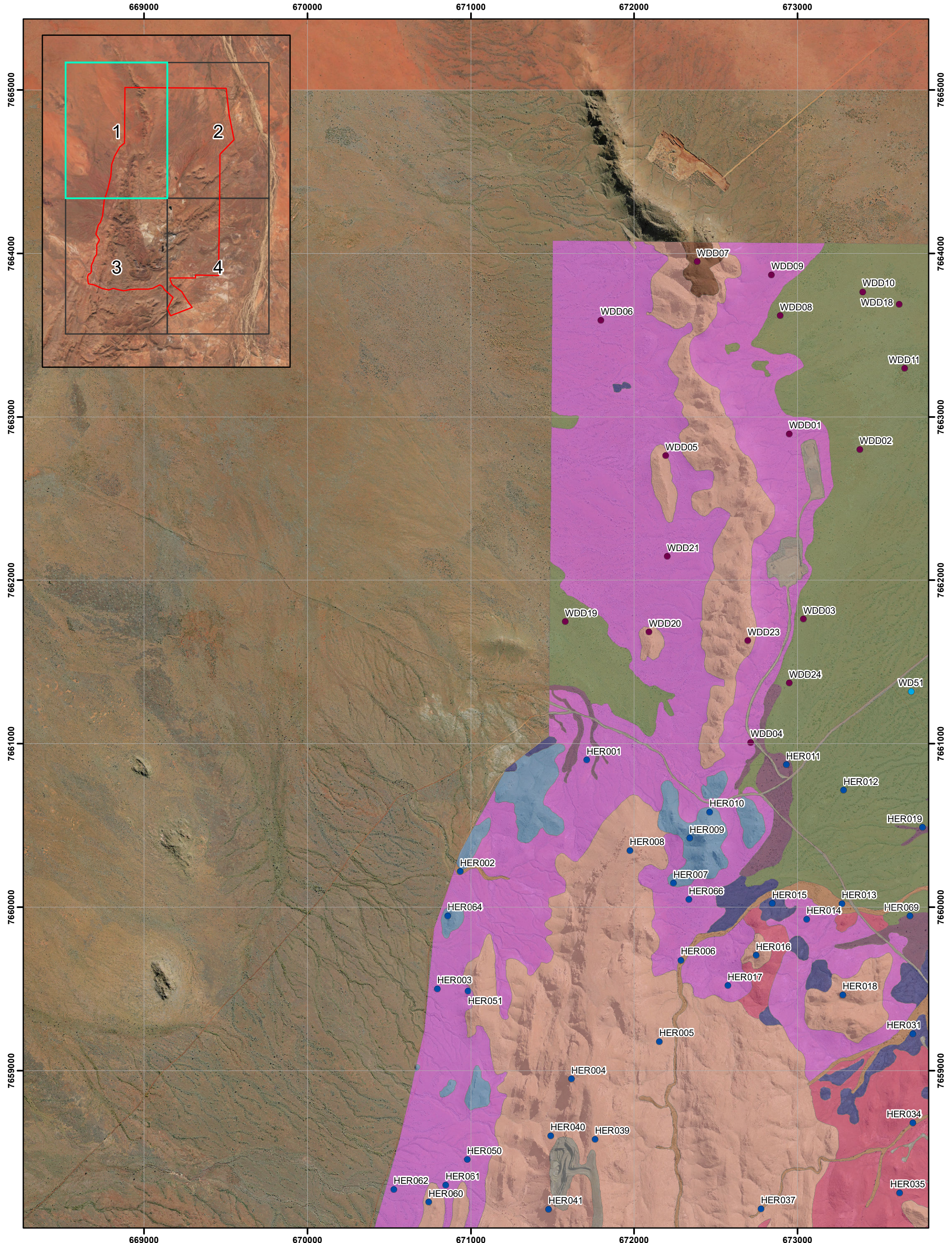
Taxon	Vegetation Unit														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>Mitrasacme connata</i>											X		X		
<i>Nicotiana benthamiana</i>				X					X				X	X	
<i>Nicotiana occidentalis</i>														X	
<i>Notoleptopus decaisnei</i>						X			X	X	X			X	
<i>Oldenlandia crouchiana</i>		X	X	X	X	X	X	X	X		X	X	X	X	
<i>Operculina aequisejala</i>														X	
<i>Paraneurachne muelleri</i>	X	X			X						X	X		X	
<i>Paspalidium clementii</i>		X		X			X		X	X	X			X	
* <i>Passiflora foetida</i> var. <i>hispida</i>									X					X	
<i>Paspalidium rarum</i>											X			X	
<i>Paspalidium tabulatum</i>			X						X					X	
<i>Perotis rara</i>											X			X	
<i>Peripleura virgata</i>				X					X						
<i>Petalostylis labicheoides</i>		X			X						X	X	X	X	
<i>Phyllanthus maderaspatensis</i>						X			X		X			X	
<i>Pluchea dentex</i>									X		X				
<i>Pluchea ferdinandi-muelleri</i>	X							X	X		X	X	X	X	
<i>Pluchea rubelliflora</i>														X	
<i>Pluchea tetranthera</i>	X	X		X						X	X	X	X	X	
<i>Polymeria ambigua</i>											X	X	X	X	
<i>Polycarpaea corymbosa</i>	X	X	X	X		X			X	X	X		X	X	
<i>Polygala glaucifolia</i>	X	X	X	X		X	X	X	X	X	X		X		
<i>Polycarpaea holtzei</i>	X	X	X	X	X		X		X	X	X		X	X	
<i>Polycarpaea longiflora</i>		X	X	X	X				X		X		X	X	
<i>Polygala</i> aff. <i>saccopetala</i>											X				
<i>Portulaca oleracea</i>	X				X	X				X	X		X	X	X
<i>Pterocaulon sphacelatum</i>				X							X		X	X	
<i>Pterocaulon sphaeranthoides</i>									X		X			X	
<i>Ptilotus astrolasius</i>	X	X	X	X	X	X		X	X	X	X	X	X	X	
<i>Ptilotus auriculifolius</i>	X	X	X	X	X	X	X	X	X	X	X		X	X	
<i>Ptilotus axillaris</i>			X			X			X	X	X	X	X	X	

Taxon	Vegetation Unit														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>Ptilotus calostachyus</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Ptilotus clementii</i>	X				X	X		X							
<i>Ptilotus exaltatus</i>	X	X		X	X				X		X	X	X	X	X
<i>Ptilotus fusiformis</i>		X	X	X					X	X	X			X	
<i>Ptilotus incanus</i>			X	X					X				X	X	
<i>Ptilotus polystachyus</i>				X								X			
<i>Rhodanthe margarethae</i>													X		
<i>Rhynchosia minima</i>				X			X		X	X	X	X	X	X	
<i>Salsola australis</i>				X		X		X	X		X	X		X	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	X												X		
<i>Scaevola spinescens</i>														X	
<i>Schizachyrium fragile</i>			X								X		X		
<i>Sclerolaena densiflora</i>												X			
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>							X		X	X	X	X		X	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>			X	X	X				X			X	X	X	
<i>Senna glutinosa</i> subsp. <i>pruinosa</i>	X			X	X				X						
<i>Senna notabilis</i>		X	X	X	X	X		X	X	X	X	X	X	X	
<i>Senna symonii</i>	X	X		X	X			X	X	X	X	X		X	
<i>Seringia nephrosperma</i>				X							X		X		
<i>Sesbania cannabina</i>														X	
<i>Sida arenicola</i>				X						X	X		X		
<i>Sida clementii</i>										X	X			X	
<i>Sida fibulifera</i>												X		X	X
<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)		X	X	X	X				X	X	X		X	X	
<i>Solanum diversiflorum</i>					X				X	X	X			X	
<i>Solanum horridum</i>			X		X		X		X		X		X	X	
<i>Solanum phlomoides</i>	X	X	X	X	X	X	X		X	X	X	X	X	X	
<i>Sorghum plumosum</i> var. <i>plumosum</i>											X				
<i>Sporobolus australasicus</i>	X		X			X	X	X			X	X	X	X	X
<i>Stackhousia muricata</i>							X	X				X			
<i>Stemodia grossa</i>		X	X			X			X		X		X	X	

Taxon	Vegetation Unit														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>Stemodia viscosa</i>													X	X	
<i>Streptoglossa decurrens</i>									X		X	X	X	X	
<i>Striga squamigera</i>									X		X			X	
<i>Swainsona formosa</i>				X		X		X	X		X			X	
<i>Swainsona stenodonta</i>				X				X							
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	X	X			X	X	X			X	X		X	X	
<i>Tephrosia clementii</i>	X	X			X	X			X	X	X				
<i>Tephrosia densa</i>							X		X					X	
<i>Tephrosia rosea</i> var. <i>clementii</i>											X		X	X	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)		X	X			X			X	X	X	X	X	X	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		X	X	X	X	X	X		X	X	X	X	X		
<i>Tephrosia supina</i>											X				
<i>Tephrosia virens</i>		X	X		X	X			X				X	X	
<i>Terminalia circumalata</i>									X				X	X	
<i>Terminalia supranitifolia</i> (P3)			X						X					X	
<i>Themeda triandra</i>									X		X			X	
<i>Tinospora smilacina</i>						X			X	X	X	X	X	X	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>		X	X	X			X		X	X	X		X	X	
<i>Triodia angusta</i>	X							X			X	X			
<i>Tribulopsis angustifolia</i>								X							
<i>Triodia brizoides</i>		X	X	X	X		X		X	X	X		X	X	
<i>Triumfetta chaetocarpa</i>										X					
<i>Triodia chichesterensis</i> (P3)	X	X		X	X	X	X	X	X		X	X		X	
<i>Triumfetta clementii</i>									X				X	X	
<i>Trichosanthes cucumerina</i> var. <i>cucumerina</i>									X					X	
<i>Triodia epactia</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Tribulus hirsutus</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Triumfetta johnstonii</i>											X		X	X	
<i>Triodia lanigera</i>	X	X		X	X	X				X	X		X		
<i>Tripogonella loliformis</i>													X		

Taxon	Vegetation Unit														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>Triodia longiceps</i>														X	X
<i>Triumfetta maconochieana</i>			X	X					X				X	X	
<i>Trigastrotheca molluginea</i>	X	X	X	X	X	X		X	X	X	X	X	X	X	
<i>Trianthema pilosum</i>			X							X	X			X	
<i>Tribulus platypterus</i>				X	X				X		X	X		X	
* <i>Trianthema portulacastrum</i>														X	
<i>Triumfetta propinqua</i>		X	X	X					X		X		X	X	
<i>Triodia schinzii</i>										X					
<i>Tribulus suberosus</i>		X		X	X	X	X		X		X		X	X	
<i>Trianthema triquetrum</i>	X							X			X			X	X
<i>Triodia wiseana</i>	X	X	X	X	X	X	X	X	X		X	X	X	X	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i> , <i>Trichodesma zeylanicum</i>				X					X	X	X		X	X	
<i>Velleia connata</i>											X				
<i>Vigna triodiophila</i> (P3)									X					X	
<i>Waltheria indica</i>											X			X	
<i>Yakirra australiensis</i> var. <i>australiensis</i>	X		X			X			X	X	X	X	X	X	
<i>Zornia albiflora</i>	X												X		

Appendix M: Detailed Vegetation Mapping of the Study Area



This map should only be used in conjunction with WEC report MRL19-19-04.



**Detailed Vegetation Mapping
of the Study Area**

Revision: 0 - 4 Apr 2020

Scale: 1:20,000 (A3)

Author: David Coultas

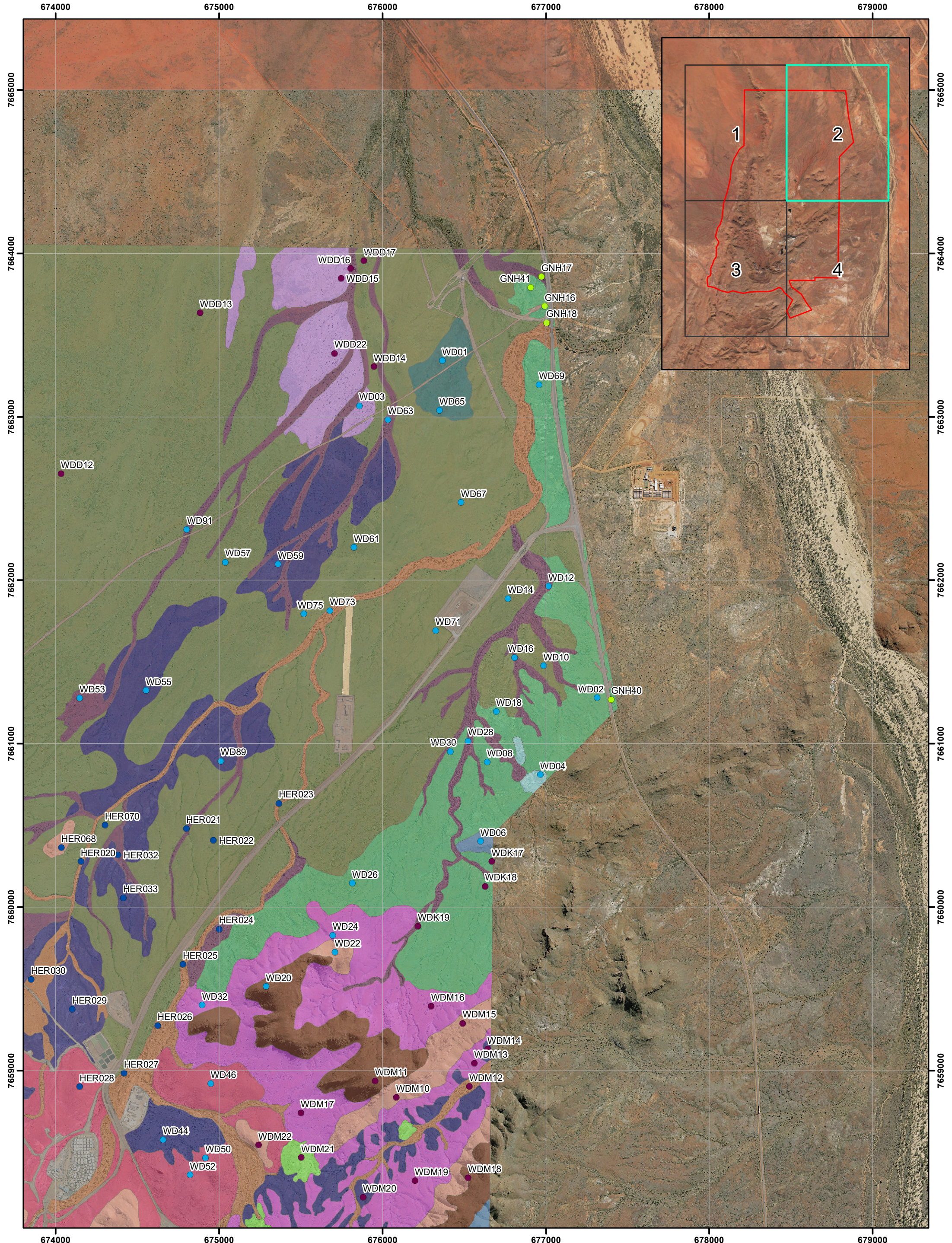
WEC Ref: MRL19-19-04

Filename: MRL19-19-04-App-M.mxd

Projection: GDA 1994 MGA Zone 50

Appendix

M1



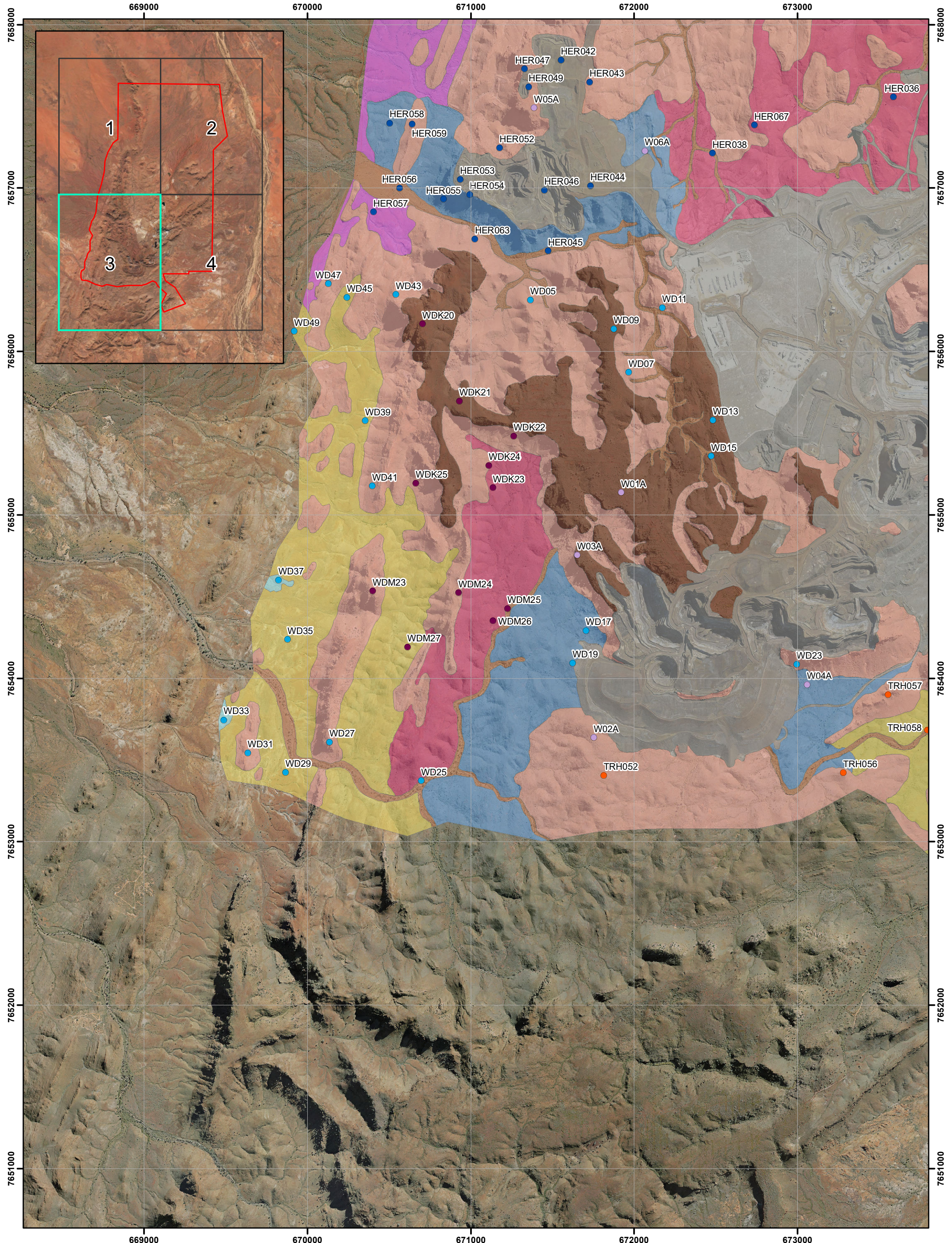
This map should only be used in conjunction with WEC report MRL19-19-04.



Detailed Vegetation Mapping of the Study Area

Revision: 0 - 4 Apr 2020 Scale: 1:20,000 (A3)

Author: David Coultas	Appendix M2
WEC Ref: MRL19-19-04	
Filename: MRL19-19-04-App-M.mxd	
Projection: GDA 1994 MGA Zone 50	



This map should only be used in conjunction with WEC report MRL19-19-04.



**Detailed Vegetation Mapping
of the Study Area**

Revision: 0 - 4 Apr 2020

Scale: 1:20,000 (A3)

Author: David Coultas

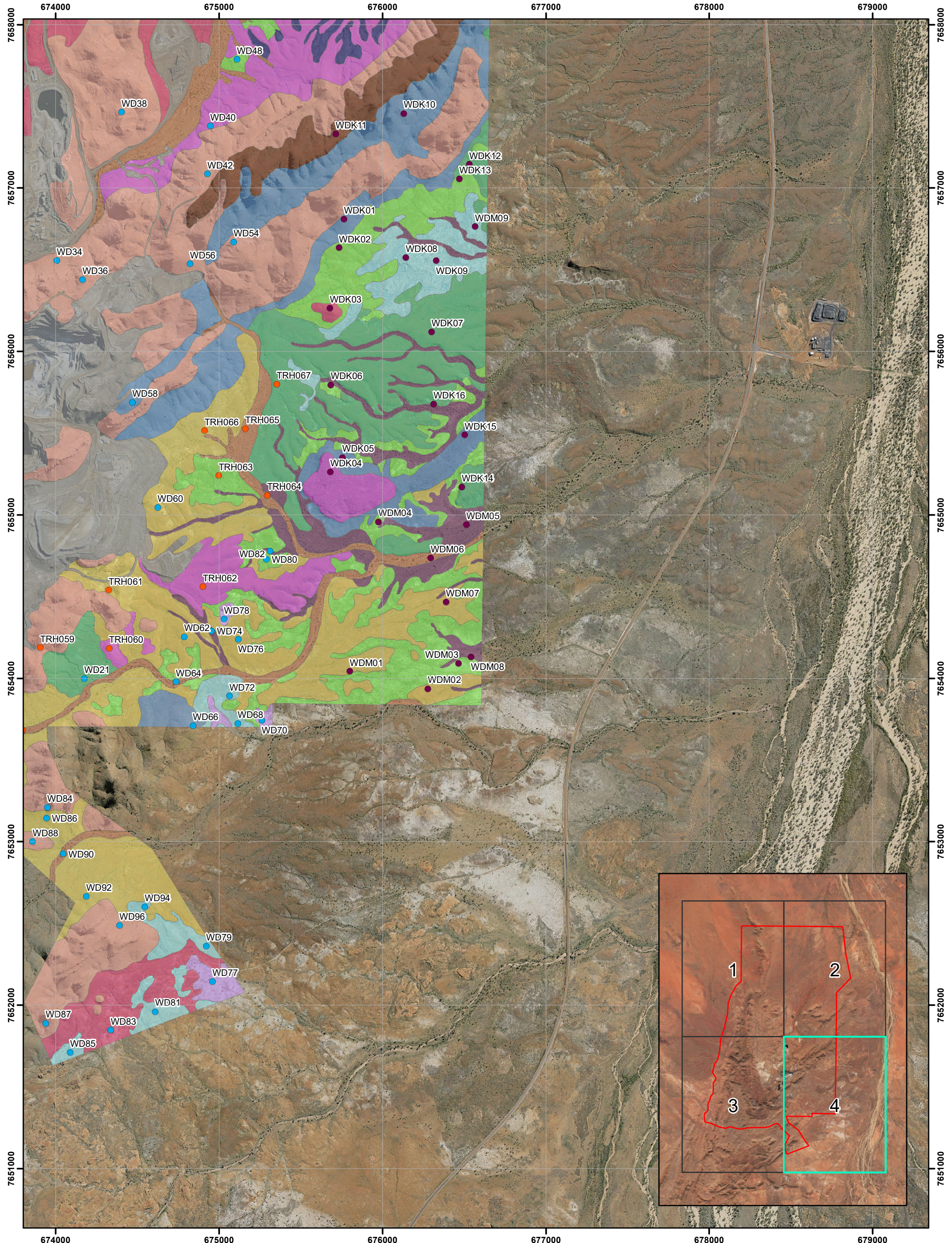
WEC Ref: MRL19-19-04

Filename: MRL19-19-04-App-M.mxd

Projection: GDA 1994 MGA Zone 50

Appendix

M3



This map should only be used in conjunction with WEC report MRL19-19-04.



**Detailed Vegetation Mapping
of the Study Area**

Revision: 0 - 4 Apr 2020

Scale: 1:20,000 (A3)

Author: David Coultas

WEC Ref: MRL19-19-04


Filename: MRL19-19-04-App-M.mxd

Projection: GDA 1994 MGA Zone 50

Appendix

M4







Legend

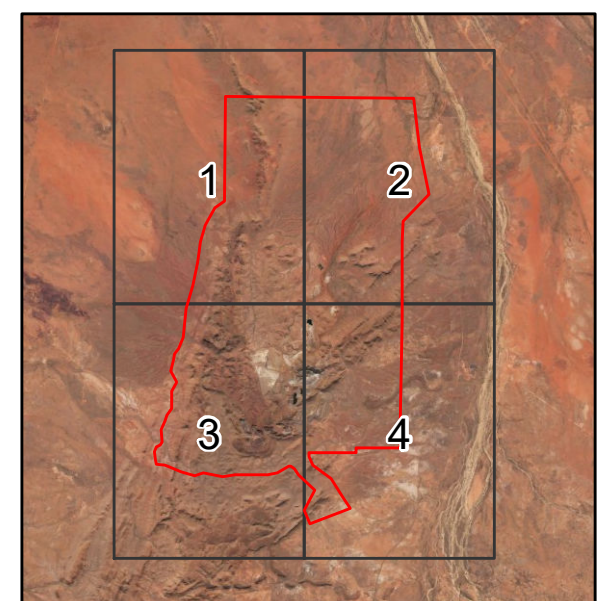
 Study Area

Vegetation Units

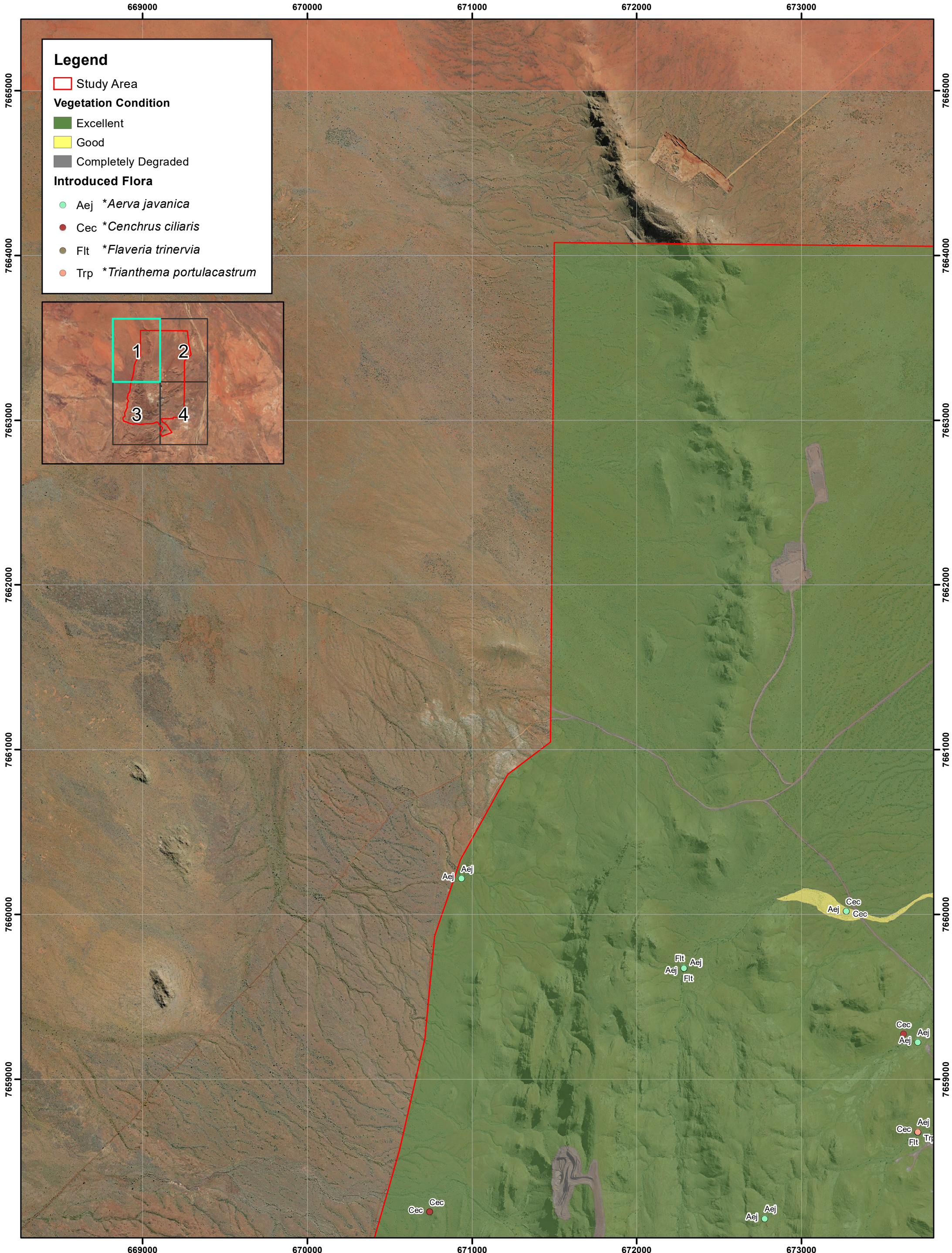
-  1 Tall open to sparse shrubland dominated by *Acacia orthocarpa*, *A. ancistrocarpa* and occasionally *A. acradenia* over low sparse shrubland of mixed species dominated by *A. stellaticeps* over low hummock grassland dominated by *Triodia lanigera* and occasionally *T. epactia* on red-brown clay loam with granite, quartz or ironstone stones on colluvial stone plains and low flat-topped rises.
 -  2 Tall to mid sparse shrubland of mixed species dominated by *Acacia acradenia*, *A. inaequilatera*, *Grevillea wickhamii* subsp. *hispidula* and occasionally *A. tumida* var. *pilbarensis* and *A. ancistrocarpa* over low sparse shrubland of mixed species including *Indigofera monophylla* and *Goodenia stobbsiana* over low hummock grassland dominated by *Triodia epactia* and/or *T. brizoides* on red, brown or red-brown clay loam with metamorphic, ironstone, quartz and occasionally granite stones, occasionally with metamorphosed granite or granite outcropping, on lower slopes and colluvial outwashes of ranges and occasionally on low flat-topped rises.
 -  3 Low open woodland to isolated trees of *Eucalyptus leucophloia* subsp. *leucophloia* and/or *Corymbia hamersleyana* over tall to mid sparse to open shrubland dominated by *Acacia acradenia*, *Grevillea wickhamii* subsp. *hispidula* and *A. tumida* var. *pilbarensis* over low sparse shrubland of mixed species including *Dampiera candicans*, *Indigofera monophylla*, *Goodenia stobbsiana* and *Triumfetta maconochieana* over low hummock grassland dominated by *Triodia epactia* and often *T. brizoides* or *T. wiseana* over low sparse tussock grassland dominated by *Eriachne mucronata* on red, brown or red brown clay loam with ironstone or metamorphosed granite stones over ironstone or metamorphosed granite outcropping on plateaus, crests and upper slopes of ranges.
 -  4 Tall to mid sparse shrubland dominated by *Acacia inaequilatera*, *A. acradenia* and *Grevillea wickhamii* subsp. *hispidula* over low sparse shrubland of mixed species including *Corchorus parviflorus* and *Indigofera monophylla* over low hummock grassland dominated by *Triodia epactia* and/or *T. wiseana*, or occasionally *T. brizoides* and *T. chichesterensis*, on red, brown or red-brown clay loam with metamorphosed granite, dolerite and occasionally ironstone stones over metamorphosed granite or dolerite outcropping on mid and upper slopes of ranges, and low ridges and hills.
 -  5 Tall to mid sparse shrubland of mixed species dominated by *Acacia acradenia*, *A. inaequilatera* and *A. orthocarpa* over low sparse shrubland of mixed species dominated by *Acacia spondylophylla* over low hummock grassland dominated by a combination of *Triodia chichesterensis*, *T. wiseana*, *T. epactia*, *T. brizoides* and *T. lanigera* on red-brown clay loam with metamorphosed granite, ironstone, dolerite, quartz and calcrete stones, occasionally over metamorphosed granite and dolerite outcropping, on lower slopes and colluvial outwashes of ranges and low flat-topped rises.
 -  6 Low open woodland to isolated trees of *Corymbia hamersleyana* over tall to mid sparse shrubland dominated by *Acacia inaequilatera*, *A. acradenia* and *Grevillea wickhamii* subsp. *hispidula* over low hummock grassland dominated by *Triodia chichesterensis* and/or *T. wiseana* on brown or occasionally red clay loam with calcrete, quartz and metamorphosed granite stones, occasionally over calcrete outcropping, on colluvial outwashes of ranges and colluvial stony plains.
 -  7 Tall to mid sparse shrubland of mixed species including *Acacia inaequilatera*, *Grevillea pyramidalis* subsp. *leucadendron* and *A. orthocarpa* over low hummock grassland dominated by *Triodia chichesterensis* and/or *T. wiseana* on brown, red or red-brown clay loam with dolerite, calcrete and quartz stones, often with dolerite outcropping, on low hills.
 -  8 Low isolated trees of *Corymbia hamersleyana* over tall to mid sparse shrubland dominated by *Acacia bivenosa* and *A. inaequilatera* over low hummock grassland dominated by *Triodia chichesterensis* and/or *T. wiseana* and *T. angusta* on brown, red-brown or grey-brown clay loam with dolerite, calcrete, ironstone and quartz stones on colluvial stony plains.
 -  9 Low isolated trees of *Corymbia hamersleyana* over mid sparse shrubland to isolated shrubs dominated by *Acacia acradenia*, *A. inaequilatera* and *Grevillea wickhamii* subsp. *hispidula* over low hummock grassland dominated by *T. wiseana*, *T. epactia* and occasionally *T. brizoides* on red, brown or red-brown clay loam with ironstone, metamorphosed granite or occasionally dolerite or quartz stones over ironstone or metamorphosed granite outcropping on cliffs, ridges and crests and upper to mid slopes of ranges.
 -  10 Low isolated trees of *Corymbia hamersleyana* and/or *Corymbia zygomphyla* over tall to mid open to sparse shrubland dominated by *Acacia ancistrocarpa* and occasionally *A. tumida* var. *pilbarensis*, *A. inaequilatera* and *Grevillea wickhamii* subsp. *hispidula* over low sparse shrubland of mixed species dominated by *Bonamia erecta*, *Indigofera monophylla* and *Ptilotus astrolasius* over low hummock grassland dominated by *Triodia lanigera* and occasionally *T. schinzii* and/or *T. epactia* on red, brown or red-brown sandy or clay loam, often with quartz or ironstone stones, on plains.
 -  11 Low isolated trees of *Corymbia hamersleyana* over tall open to sparse shrubland dominated by *A. tumida* var. *pilbarensis*, *A. ancistrocarpa* and *A. acradenia* over low open to sparse shrubland of mixed species including *Bonamia erecta*, *Isotropis atropurpurea* and *Corchorus parviflorus* over low hummock and tussock grassland dominated by *Chrysopogon fallax*, *Triodia epactia* and occasionally *T. lanigera* on red, brown or red-brown sandy or clay loam with colluvial stones in minor drainage features including flats and small creeks.
 -  12 Low open woodland of *Corymbia hamersleyana* over tall sparse shrubland dominated by *Acacia inaequilatera* over mid sparse shrubland dominated by *Acacia bivenosa* and *Codonocarpus cotinifolius* over low sparse shrubland of mixed species dominated by *Corchorus parviflorus*, *Indigofera monophylla*, *Heliotropium chrysocarpum* and *Heliotropium pachyphyllum* over low hummock grassland dominated by *Triodia chichesterensis* and occasionally *T. epactia* or *T. angusta* on red, brown or grey-brown clay loam with calcrete or quartz stones on undulating plains.
 -  13 Isolated low trees dominated by *Corymbia hamersleyana* over tall to mid sparse shrubland dominated by *Acacia orthocarpa*, *Grevillea wickhamii* subsp. *hispidula* and often *A. maitlandii* and *A. tumida* var. *pilbarensis* over low sparse shrubland of mixed species including *Corchorus parviflorus*, *Dampiera candicans*, *Goodenia stobbsiana*, *Indigofera monophylla* and *Scaevola browniana* subsp. *browniana* over low hummock grassland dominated by *Triodia epactia* and occasionally *T. brizoides* or *T. lanigera* on orange, brown or red-brown sandy or clay loam with granite and quartz stones over granite outcropping on undulating plains or low rises.
 -  14 Low open woodland to isolated trees dominated by *Eucalyptus victrix* and/or *Corymbia hamersleyana* over tall open to sparse shrubland of mixed species dominated by *Acacia pyrifolia* var. *pyrifolia*, *A. tumida* var. *pilbarensis* and *Melaleuca linophylla* over mid to low open to sparse shrubland of mixed species including *Cajanus pubescens*, *Indigofera monophylla*, *Tephrosia rosea* var. *clementii*, *Corchorus parviflorus* and *Jasminum didymum* subsp. *lineare* over low tussock and hummock grassland to open tussock and hummock grassland of mixed species dominated by *Triodia epactia*, *Cenchrus ciliaris*, *Chrysopogon fallax*, *Cymbopogon ambiguus* and *Eriachne tenuiculmis* on red or brown clay or sandy loam, usually with colluvial stones, in major creeks.
 -  15 Mid isolated shrubs of *Acacia synchronicia* over low isolated chenopod shrubs of *Maireana* sp. over low sparse forbland, tussock grassland and sedgeland of mixed species including *Portulaca oleracea*, *Ptilotus exaltatus*, *Cynodon prostratus*, *Sporobolus australasicus* and *Fimbristylis dichotoma* on red clay loam with colluvial stones on plains.
-  C Approved Clearing
-  D Degraded Land

Quadrat Locations

-  2019 Survey
-  2018 Survey
-  TRH quadrats (reassessed 2019)
-  GNH Upgrade Project (Woodman Environmental 2013c)
-  Hercules Project (Woodman Environmental 2012c)
-  Wodgina 2018 Rehabilitation Monitoring (Woodman Environmental 2018)



Appendix N: Detailed Vegetation Condition and Locations of Introduced Flora Taxa of the Study Area



This map should only be used in conjunction with WEC report MRL19-19-04.



Detailed Vegetation Condition and Locations of Introduced Flora Taxa of the Study Area

Revision: 0 - 4 Apr 2020

Scale: 1:20,000 (A3)

Author: David Coultas

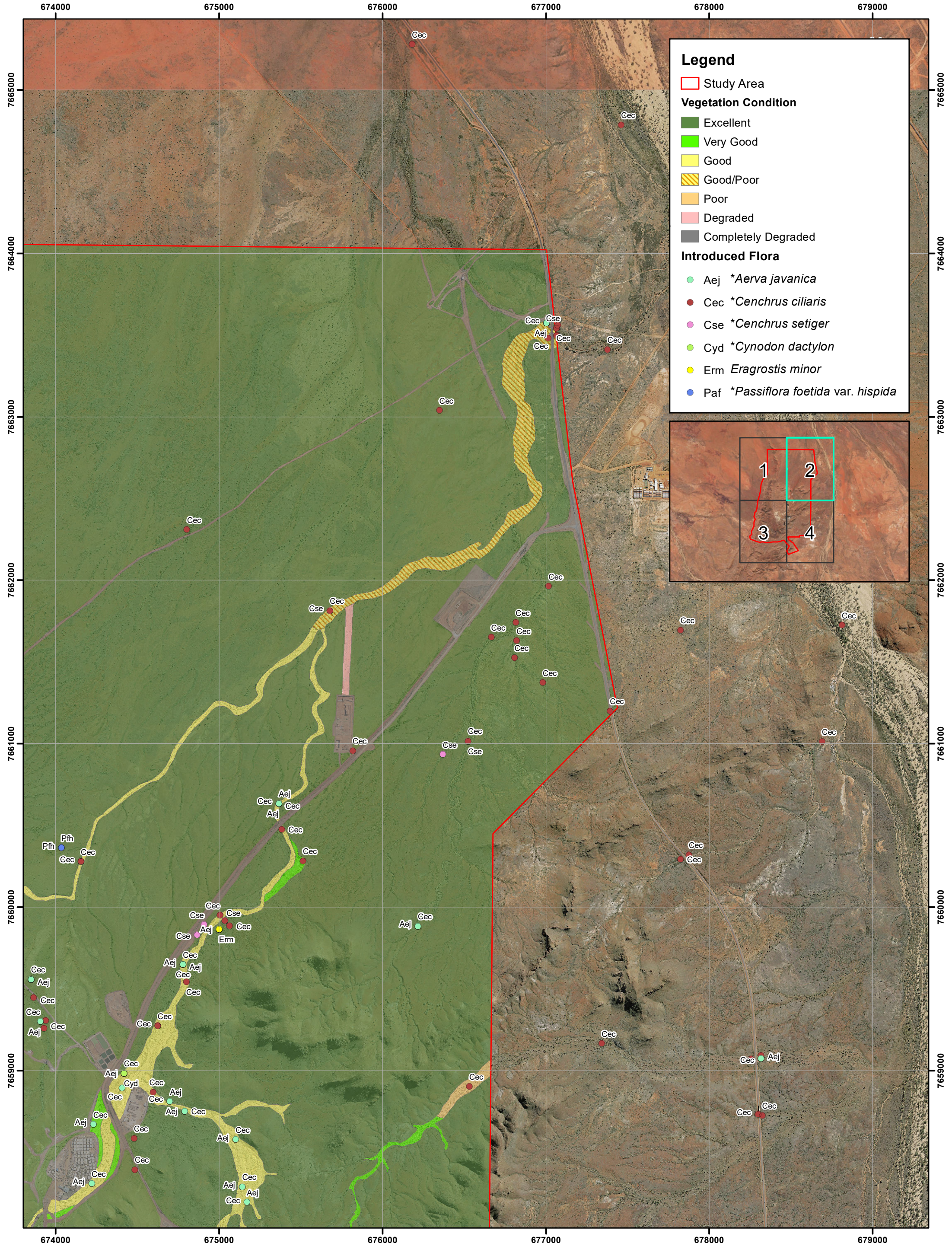
WEC Ref: MRL19-19-04

Filename: MRL19-19-04-App-N.mxd

Projection: GDA 1994 MGA Zone 50

Appendix

N1



Legend

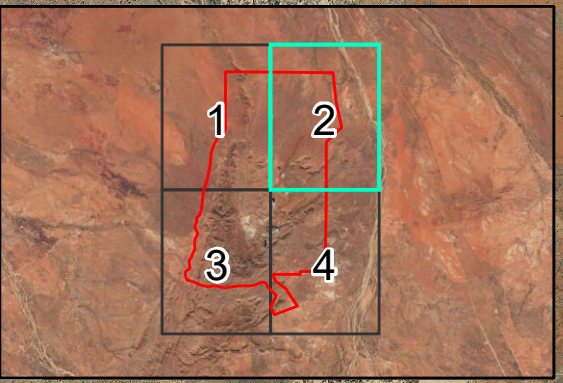
Study Area

Vegetation Condition

- Excellent
- Very Good
- Good
- Good/Poor
- Poor
- Degraded
- Completely Degraded

Introduced Flora

- Aej **Aerva javanica*
- Cec **Cenchrus ciliaris*
- Cse **Cenchrus setiger*
- Cyd **Cynodon dactylon*
- Erm *Eragrostis minor*
- Paf **Passiflora foetida* var. *hispida*



WOODMAN ENVIRONMENTAL

This map should only be used in conjunction with WEC report MRL19-19-04.

Detailed Vegetation Condition and Locations of Introduced Flora Taxa of the Study Area

Revision: 0 - 4 Apr 2020 Scale: 1:20,000 (A3)

Author: David Coultas

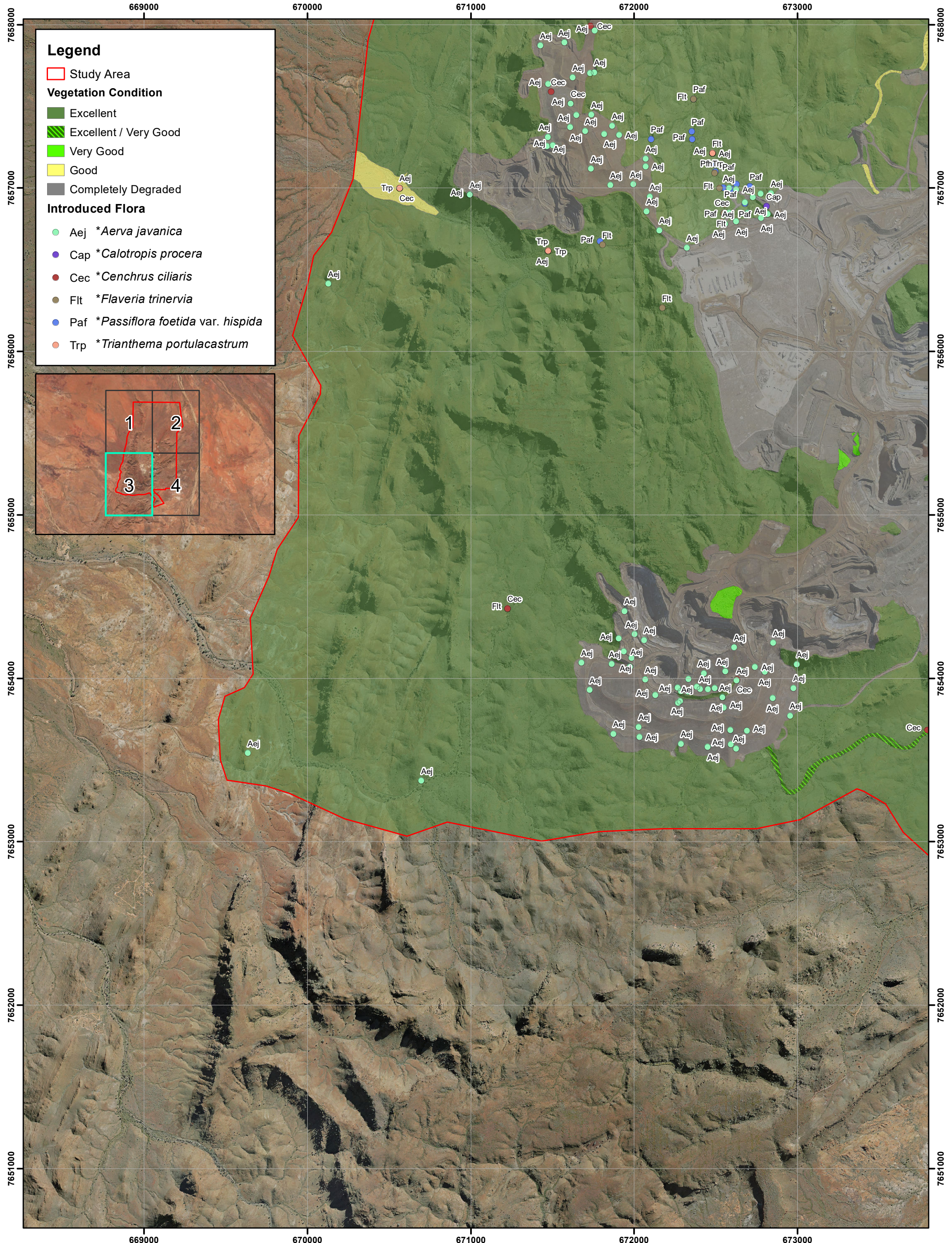
WEC Ref: MRL19-19-04

Filename: MRL19-19-04-App-N.mxd

Projection: GDA 1994 MGA Zone 50

Appendix

N2



Legend

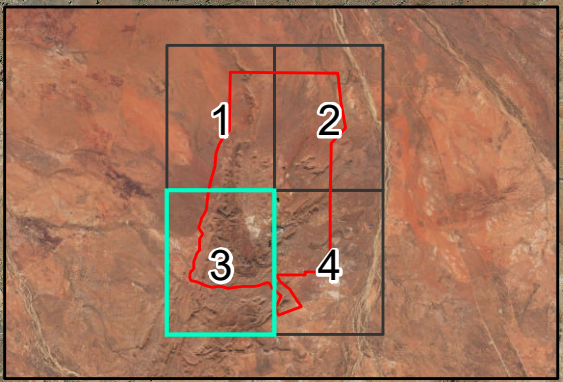
Study Area

Vegetation Condition

- Excellent
- Excellent / Very Good
- Very Good
- Good
- Completely Degraded

Introduced Flora

- Aej **Aerva javanica*
- Cap **Calotropis procera*
- Cec **Cenchrus ciliaris*
- Flt **Flaveria trinervia*
- Paf **Passiflora foetida var. hispida*
- Trp **Trianthema portulacastrum*



This map should only be used in conjunction with WEC report MRL19-19-04.

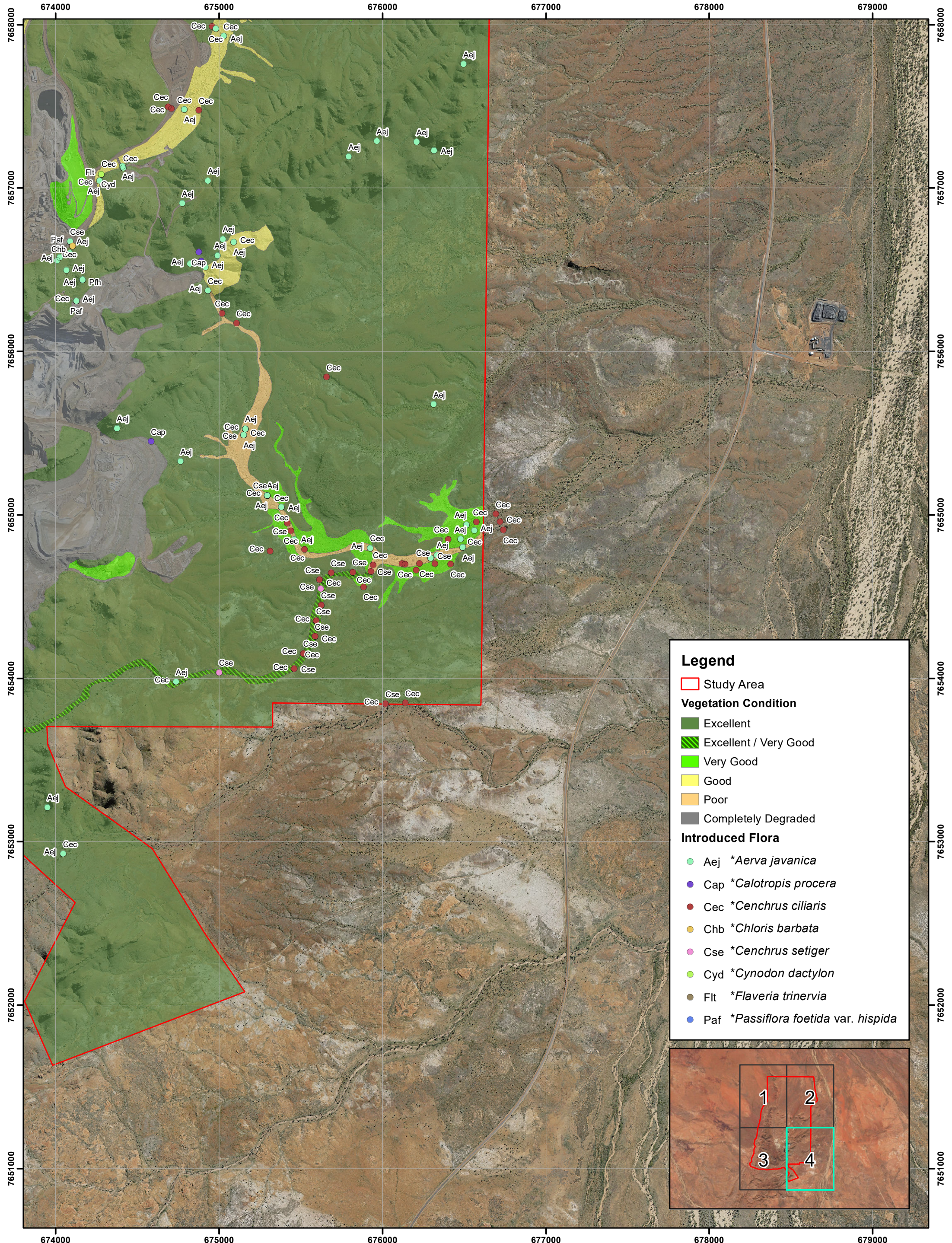
Detailed Vegetation Condition and Locations of Introduced Flora Taxa of the Study Area

Revision: 0 - 4 Apr 2020 Scale: 1:20,000 (A3)

Author: David Coultas
 WEC Ref: MRL19-19-04
 Filename: MRL19-19-04-App-N.mxd
 Projection: GDA 1994 MGA Zone 50

Appendix

N3



Legend

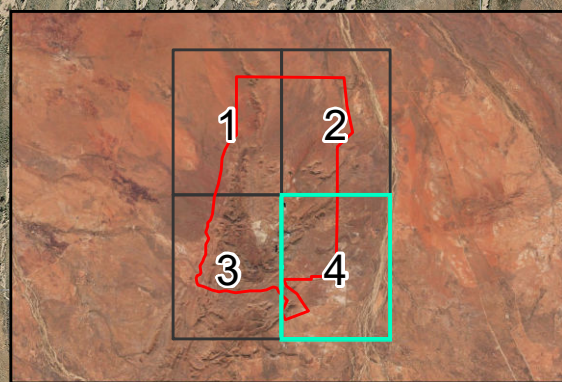
Study Area

Vegetation Condition

- Excellent
- Excellent / Very Good
- Very Good
- Good
- Poor
- Completely Degraded

Introduced Flora

- Aej **Aerva javanica*
- Cap **Calotropis procera*
- Cec **Cenchrus ciliaris*
- Chb **Chloris barbata*
- Cse **Cenchrus setiger*
- Cyd **Cynodon dactylon*
- Flt **Flaveria trinervia*
- Paf **Passiflora foetida* var. *hispida*



Detailed Vegetation Condition and Locations of Introduced Flora Taxa of the Study Area

Author: David Coultas
 WEC Ref: MRL19-19-04
 Filename: MRL19-19-04-App-N.mxd
 Projection: GDA 1994 MGA Zone 50

Appendix
N4

This map should only be used in conjunction with WEC report MRL19-19-04.

Revision: 0 - 4 Apr 2020

Scale: 1:20,000 (A3)