DESKTOP AND DETAILED FLORA & VEGETATION ASSESSMENT

YINDJIBARNDI RENEWABLE ENERGY PROJECT

Prepared By

Mattiske Consulting Pty Ltd

Prepared For

Yindjibarndi Energy Corporation

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LIST OF ABBREVIATIONS

BAM Act:	*Biosecurity and Agriculture Management Act 2007* (WA)
BC Act:	*Biodiversity Conservation Act 2016* (WA)
BoM:	Bureau of Meteorology
CLUSTER:	Hierarchical Clustering
DBCA:	Department of Biodiversity, Conservations and Attractions
DCCEEW:	Department of Climate Change, Energy, the Environment and Water
DEC:	Department of Environment and Conservation
DPIRD:	Department of Primary Industries and Regional Development
EP Act:	*Environmental Protection Act 1986* (WA)
EPA:	Environmental Protection Authority
EPBC Act:	*Environment Protection and Biodiversity Conservation Act 1999* (Commonwealth)
IBRA:	Interim Biogeographical Regionalisation for Australia
IBSA:	Index of Biodiversity Surveys for Assessment
GDE:	Groundwater-dependent ecosystem
Mattiske Consulting:	Mattiske Consulting Pty Ltd
PEC:	Priority Ecological Community
PMST:	Protected Matter Search Tool
PRIMER:	Plymouth Routines in Multivariate Ecological Research
SIMPER:	Similarity Percentages
SIMPROF:	Similarity Profile
TEC:	Threatened Ecological Community
Riparian Flora and Plant Communities PEC:	Riparian Flora and Plant Communities of Springs and River Pools with High Water Permanence of the Pilbara Region PEC
WAH:	Western Australian Herbarium (PERTH)
YEC:	Yindjibarndi Energy Corporation

EXECUTIVE SUMMARY

The Yindjibarndi Energy Corporation is a partnership between the Yindjibarndi Aboriginal Corporation and renewable energy company, ACEN Corporation. The Yindjibarndi Energy Corporation is investigating the feasibility of constructing renewable energy generation and storage facilities in 40,535 ha of the Yindjibarndi Native Title determination area (Survey Area), approximately 55 km south of Karratha, in the Pilbara region of Western Australia. To support any future proposal within the Survey Area, Coterra Environment commissioned Mattiske Consulting Pty Ltd, on behalf of the Yindjibarndi Energy Corporation, in April 2024 to undertake a desktop and detailed flora and vegetation assessment of the Survey Area. The desktop assessment aimed to identify the conservation significant flora and vegetation communities potentially present within the Survey Area. The results of the desktop assessment informed a post-dry season detailed flora and vegetation survey, undertaken over six days in September 2024. A post-wet season detailed flora and vegetation survey is also scheduled for early 2025.

From 214 survey sites, a total of 297 vascular plant taxa which are representative of 143 genera and 49 families were recorded during the 2024 field survey. Once combined with data collected by Mattiske Consulting (2023) from within the Survey Area, a total of 343 vascular plant taxa representative of 52 families and 156 genera have been recorded within the Survey Area. No threatened flora, as listed in the *Biodiversity Conservation (Listing of Native Species) (Flora) Order 2022*, and pursuant to section 179 of the *Environment Protection and Biodiversity Conservation Act 1999,* were recorded within the Survey Area. Seven Priority taxa, as listed by the Western Australian Herbarium, were recorded within the Survey Area, all of which were known to occur in the area:

- *Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3);
- *Euphorbia inappendiculata* var. *inappendiculata* (P3);
- *Euphorbia stevenii* (P3);
- *Neptunia longipila* (P2);
- *Pentalepis trichodesmoides* subsp. *hispida* (P2);
- *Rhynchosia bungarensis* (P4); and
- *Trianthema* sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2).

The vegetation communities defined within the Survey Area were consistent with the information recorded in the desktop assessment. The majority of the Survey Area consisted of *Triodia* grasslands with emergent *Corymbia* and *Acacia* shrublands on either granitic or sandstone derived substrates. These areas were intersected by ephemeral creeks supporting various *Eucalyptus victrix* and *Eucalyptus camaldulensis* woodlands with variable *Melaleuca* spp. and *Acacia* spp. understoreys. Some *Eucalyptus* woodland riparian vegetation supported pools with high water permanence. Small areas of *Melaleuca argentea* woodlands were also recorded throughout the Survey Area. These larger creeks lower in the landscape were considered likely to represent the Riparian Flora and Plant Communities PEC (P2) based on the presence of several indicator species, namely *Melaleuca argentea, Eucalyptus camaldulensis* subsp. *refulgens, Acacia ampliceps, Typha domingensis*, *Cyperus vaginatus* and *Schoenoplectus subulatus*. Along the southern boundary of the Survey Area, and on isolated hills in the centre and centre-north, *Aristida latifolia* low sparse shrublands with very low foliage cover were recorded on uniquely friable clay-loam soil. These areas of vegetation were considered likely to represent the Cracking clays of the Chichester and Mungaroona Range PEC (P1).

The post wet-season component of this survey, scheduled for early 2025, aims to supplement the dry season data presented here and clarify the distribution and abundance of all conservation significant taxa throughout the Survey Area, but particularly those with an annual life form. Further, the post wet-season survey aims to more thoroughly sample and describe the vegetation in the northern and north-western portions of the Survey Area which had been burnt approximately 10 months prior to the September 2024 survey, and which supported largely immature vegetation at the time of this survey. Specifically, the post wet-season survey will:

1. Reassess a subset of the quadrats established within the burnt areas to confirm mature vegetation structure and composition; and
2. Sample annual taxa which were potentially absent during this 2024 dry season survey.

1. INTRODUCTION

The Yindjibarndi Energy Corporation (YEC) is investigating the feasibility of constructing renewable energy generation and storage facilities in 40,535 ha of the Yindjibarndi Native Title determination area in the Pilbara region of Western Australia. The YEC is a partnership between the Yindjibarndi Aboriginal Corporation and renewable energy company, ACEN Corporation.

1.1 Location and Scope of Project

The Yindjibarndi Native Title Determination Areas are located within the northern Pilbara region of Western Australia, and encompass Karratha and Millstream Chichester National Park (Figure 1). The Survey Area is located approximately 55 km south of Karratha, and immediately west of Millstream-Chichester National Park (Figure 1). Covering and area of approximately 40,535 ha, the Survey Area is the site being investigated by the YEC for renewable energy generation and storage infrastructure.

Coterra Environment commissioned Mattiske Consulting Pty Ltd (Mattiske Consulting), on behalf of the YEC, in April 2024 to undertake a desktop and detailed flora and vegetation assessment of the Survey Area. This desktop survey aimed to identify the conservation significant flora and vegetation communities potentially present within the Survey Area. The results of the desktop assessment informed a post-dry season detailed flora and vegetation survey, undertaken over six days in September 2024. A post-wet season detailed flora and vegetation survey is also scheduled for early 2025.

1.2 Environmental Legislation and Guidelines

The following key Commonwealth (federal) legislation relevant to this survey is the:

- *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

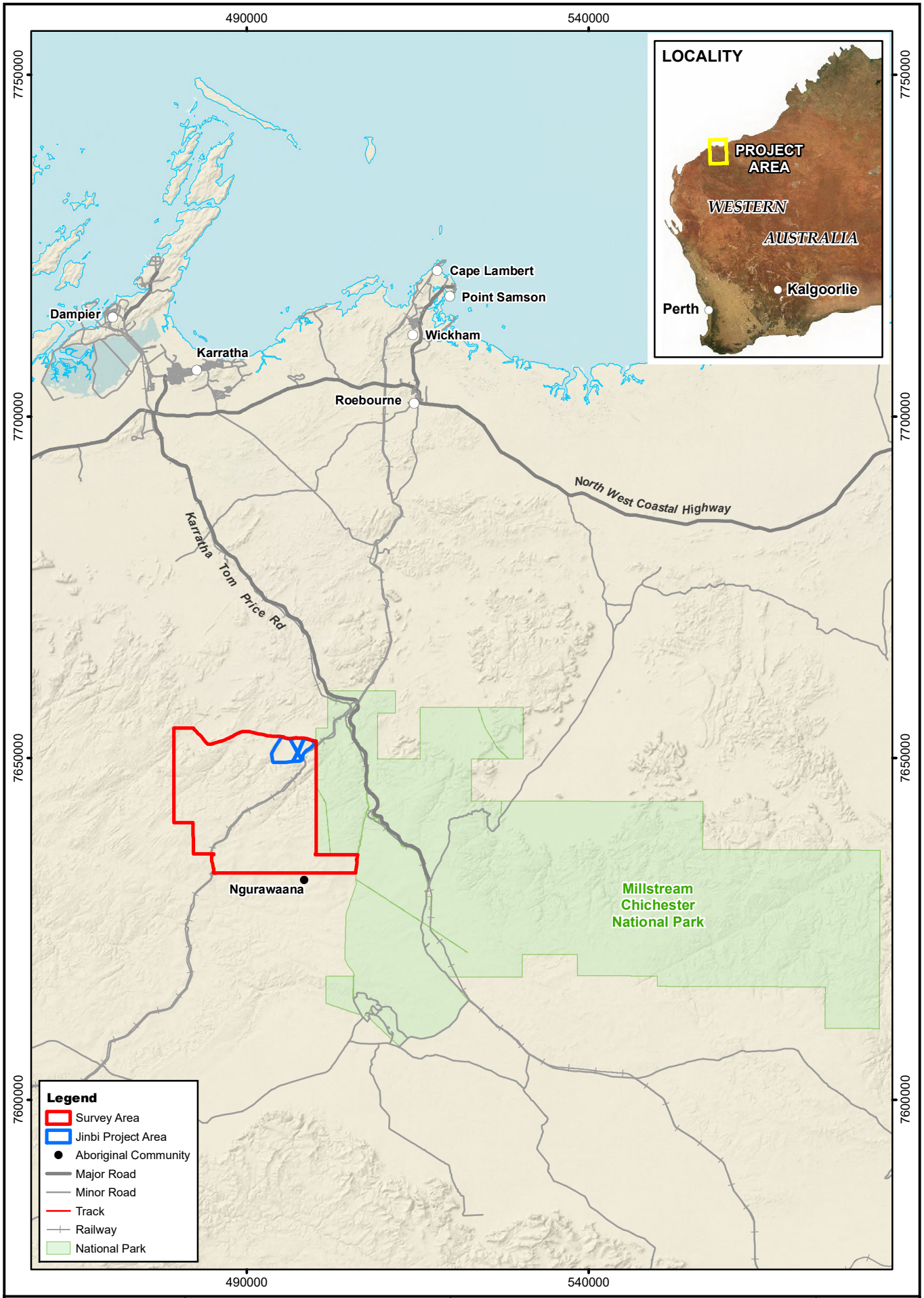
The following key Western Australian (state) legislation relevant to this survey include the:

- *Biodiversity Conservation Act 2016* (BC Act);
- *Biosecurity and Agriculture Management Act 2007* (BAM Act);
- *Environmental Protection Act 1986* (EP Act); and
- *Environmental Protection (Environmentally Sensitive Areas) Notice 2005*

Furthermore, key Western Australian guidelines relevant to this survey are the:

- *Technical Guidance – Flora and vegetation surveys for environmental impact assessment* ((Environmental Protection Authority [EPA] 2016a); and
- *Environmental Factor Guideline: Flora and Vegetation* (EPA 2016b)

Definitions of flora and vegetation terminology commonly used throughout this report are set out in Appendices A1 – A6.



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Yindjibarndi Energy Corporation
Yindjibarndi Renewable Energy Project
Locality

Figure: 1

2. OBJECTIVES

The aim of this survey was to complete a desktop and post-dry season detailed flora and vegetation assessment of the Survey Area and describe the vegetation therein. Specifically, the objectives included:

- Undertake a desktop assessment to evaluate the botanical values of the local and broader area associated with the Survey Area to identify any matters of botanical or conservation significance, and review previous literature and current databases associated with the Survey Area;
- On the basis of the reviews, provide summaries to assist in the assessment of the potential range of values and the potential for conservation significant species and communities;
- Undertake a post-dry season detailed flora and vegetation survey;
- Collect and identify the vascular plant species present in vegetation survey quadrats, relevés, as well as opportunistically, within the Survey Area;
- Record visual observations of the fire regimes, grazing pressures and overall health of the vegetation to allow for an assessment of the overall condition of the flora and vegetation within the Survey Area;
- Record the location and abundance of any known or suspected conservation significant flora or ecological communities encountered within the Survey Area;
- Identify and record the locations of any declared pest organisms within the Survey Area;
- Review the conservation status of the vascular plant species recorded by reference to current literature and current listings by the Department of Biodiversity, Conservation and Attractions (DBCA), and listed by the Department of Climate Change, Energy, the Environment and Water (DCCEEW 2024a) under the *Environment Protection and Biodiversity Conservation Act 1999*;
- Undertake a statistical analysis of the quadrat-based data recorded within the Survey Area to assist with the delineation of vegetation communities;
- Evaluate the distributions of any conservation significant flora recorded within the Survey Area and evaluate their regional significance; and
- Prepare a report detailing the findings.

3. METHODS

The desktop assessment was completed to the standards set out in *Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA 2016a) and *Environmental Factor Guideline: Flora and Vegetation* (EPA 2016b).

3.1 Desktop Assessment

The desktop assessment was undertaken using database resources from the Department of Biodiversity, Conservation and Attractions (DBCA 2007-, 2024a-c), the Department of Climate Change, Energy, the Environment and Water (DCCEEW 2019, 2024a-d), the Department of Environment and Conservation (DEC2011), the Department of Primary Industries and Regional Development (DPIRD 2024a-b) and the Western Australian Herbarium (WAH 1998-). The parameters used for the NautreMap search was 50 km buffer about the point 512129 mE, 7624378 mN (EPSG 28350). The geographical bounds used for the DBCA and WAH database searches for threatened and priority flora, and threatened and priority ecological community (TEC and PEC) searches were:

North: -14.7888854
South: -35.005719
East: 128.870214
West: 113.765525

Data from an October 2024 DBCA and WAH database search was provided by to Mattiske Consulting by Coterra Environment. FloraBase (WAH 1998-) and NatureMap (DBCA 2007-) databases were also used to identify the possible occurrence of threatened and priority flora, TECs and PECs, and additional natural areas of significance within the Survey Area. The EPBC Act Protected Matters Search Tool (PMST, DCCEEW 2024c) was used to identify botanical and vegetation units of National Environmental Significance and other matters protected by the EPBC Act within the Survey Area.

A range of sources were used to identify conservation significant flora and ecological communities which may be present within the Survey Area. These included:

1. A search for threatened and priority taxa using NatureMap (DBCA 2007-);
2. A search of the DBCA and WAH threatened and priority flora database;
3. A search of the DBCA TEC and PEC database; and
4. A search of the DCCEEW database (DCCEEW 2024c).

This data was used to map the distribution of individual taxa and to inform the assessment of species' likelihood of occurrence within the Survey Area. Based on locations of verified records, biogeographical factors, edaphic preferences, and any available biological information for the species, including published and WAH (1998-) information, the likelihood of conservation significant flora occurring within the Survey Area was assessed as 'Recorded', 'Potential', or 'Unlikely'.

Historical documentation and vegetation mapping of the region, principally that of Beard (1975, 1990), and survey work by the Department of Agriculture and Food covering the Pilbara region (van Vreeswyk *et al.* 2004), which provides information related to the vegetation and landforms within the Survey Area, was reviewed.

More specifically, Mattiske Consulting (2023) undertook a reconnaissance flora and vegetation survey of the Jinbi Project Area and the surrounding region in October 2023. The Jinbi Project Area is located in the northeast corner of the Survey Area, and is entirely encompassed by the Survey Area (Figure 1). The flora and vegetation reported by Mattiske Consulting (2023) were also reviewed.

3.2 Detailed Flora and Vegetation Field Survey

A detailed flora and vegetation survey was undertaken by four botanists from Mattiske Consulting between the 2nd and 7th September 2024. All botanists held valid collection licenses to collect flora for scientific purposes, issued under Regulation 62 of the *Biodiversity Conservation Regulations 2018*, and one held a valid permit to take Declared Rare Flora, issued under Section 40 of the BC Act.

Botanists had access to all relevant data in the Esri iOS application, Field Maps for ArcGIS on Apple iPads (maintained by CAD Resources). Data layers accessible on the iPads included:

- Satellite imagery;
- Survey Area boundary (supplied by Coterra Environment);
- Proposed quadrat locations;
- Historical conservation significant flora records identified in the desktop assessment;
- Previously assessed quadrat locations by Mattiske Consulting (2023);
- Vegetation mapping by Mattiske Consulting (2023); and
- Detailed taxonomic notes on conservation significant taxa identified in the desktop assessment to aid identification in the field.

Vegetation quadrats were established as appropriate to sample the vegetation communities present. Vegetation quadrat locations were initially selected using aerial imagery, with modification and additions being made in the field. All vegetation survey quadrats measured 50 m x 50 m in size. In situations where vegetation community shape precluded establishing quadrats of the standard dimensions (e.g., drainage channels), either an area of equivalent size (i.e., 2,500 m^2) was surveyed, or a relevé site was assessed. The flora and vegetation were sampled and described systematically at each vegetation survey site, and additional opportunistic collecting was undertaken wherever previously unrecorded plants were observed. At each vegetation survey quadrat, the following floristic and environmental parameters were recorded:

- GPS location (GDA94 datum);
- photograph of the vegetation from the north-west corner of quadrat facing south-east;
- soil type, colour and any additional observations;
- local site topography;
- presence of any outcropping rocks and their type;
- aspect of the hill-slopes;
- percentage of litter cover (logs, twigs and/or leaves);
- percentage of bare ground;
- time since fire;
- condition of the vegetation, based on Trudgen's (1988) condition ratings for the Eremaean and Northern botanical provinces (Appendix A5); and
- alive and dead percentage of foliage cover and average height of each species recorded.

All plant specimens collected during the field survey were dried and processed in accordance with the requirements of the WAH. All plant specimens were identified through comparisons with pressed specimens housed at the Mattiske Consulting herbarium and WAH. Where appropriate, plant taxonomists with specialist skills were consulted. Nomenclature of the species recorded is in accordance with the WAH (1998-).

3.3 Statistical Analysis of Data and Vegetation Mapping

Data collected during the 2024 field survey was merged with that collected by Mattiske Consulting (2023) from within the Survey Area. Data collected by Mattiske Consulting (2023) from outside of the Survey Area was excluded from all analyses undertaken here. To ensure the area sampled (2,500 m^2) was consistent between all sites being compared and analysed, data was categorised based on site type (i.e., quadrat or relevé), and only quadrat data was used in statistical analysis. This was because the area sampled at relevé sites was not consistent, and therefore could not be statistically compared to each other, or to data collected within quadrats (EPA 2016b). A species accumulation curve, based on accumulated

species versus number of quadrats surveyed was prepared, to evaluate the level of adequacy of the survey effort. The species accumulation curve was based on the species accumulation analysis of Colwell (2013).

Plymouth Routines in Multivariate Ecological Research version 7 (PRIMER v7) statistical analysis software was used to analyse species-by-site quadrat data and discriminate sites on the basis of their species composition (Clarke and Gorley 2015). Introduced species, singletons (species recorded at only one site) and specimens that were not identified down to the species level were excluded from the analysis. Annuals were removed from the data in analyses due to the likelihood of substantial variation in their abundances between years based on seasonality of local rainfall events. To down weight the relative contributions of quantitatively dominant species a 4th root transformation was applied to the data set. Computation of similarity matrices was based on the Bray-Curtis similarity measure. Transformed data were analysed using a series of multivariate analysis routines including Hierarchical Clustering (CLUSTER), Similarity Profile (SIMPROF) and Similarity Percentages (SIMPER). The results were used to inform and support interpretation of aerial photography and the delineation of individual vegetation communities.

To supplement these analyses, and to inform the description of vegetation communities sampled primarily with relevés (i.e., creeks), multivariate analysis of species by relevé site data was also analysed using CLUSTER, SIMPROF and SIMPER routines, despite the data being collected from sites with undefined areas (ha). These analyses of relevé sites were presence-absence transformed (given the absence of foliage cover data at all relevé sites), and served as a broad first grouping of sites to aid the delineation of primarily riparian vegetation communities.

3.4 Vegetation Descriptions

Vegetation descriptions were based on Aplin's (1979) modification of the vegetation classification system of Specht (1970), to align with the National Vegetation Information System (NVIS). Vegetation communities were described at the association level of the NVIS classification framework, as defined by the NVIS Technical Working Group (2017) (Appendix A6).

3.5 Index of Biodiversity Surveys for Assessment

The flora and vegetation survey data and report were compiled into an Index of Biodiversity Surveys for Assessment (IBSA) package in accordance with the instructions for preparing packages for the IBSA (EPA 2024), and supplied to Coterra Environment.

4. DESKTOP ASSESSMENT RESULTS

4.1 Bioregional Setting

The Survey Area is situated within the Fortescue Botanical District (Beard 1990). Beard (1990) describes this district as essentially tree and shrub-steppe communities with *Eucalyptus* trees, *Acacia* shrubs, and *Triodia* spp. He also notes that Mulga occurs in the valleys with short-grass plains occurring on alluvia. More recently, the vegetation of Western Australia has been assigned to bioregions and subregions under the Interim Biogeographic Regionalisation for Australia (IBRA; DCCEEW 2024d). The IBRA delineated 85 bioregions across Australia, based on a range of biotic and abiotic factors; including climate, vegetation, fauna, geology and landform (Thackway and Cresswell 1995; DCCEEW 2024d). The IBRA sub-regions represent more localised and homogenous geomorphological units in each bioregion (DCCEEW 2024d). The Survey Area is situated within the Chichester (PIL01) sub-region of the Pilbara IBRA region. The extent of intersection of the project area with the Chichester sub-region is set out in Table 1. The Chichester sub-region is described as undulating Archaean granite and basalt plains including significant areas of basaltic ranges. Plains support a shrub steppe characterised by *Acacia inaequilatera* over *Triodia wiseana* (formerly *Triodia pungens*) hummock grasslands, while *Eucalyptus leucophloia* tree steppes occur on ranges (Kendrick and McKenzie 2001).

4.2 Climate

Beard (1990) describes the climate of the Fortescue Botanical District as arid-tropical with summer rain, receiving 250-300 mm annually. Rainfall variability is largely driven by the occurrence of cyclones between November and April, which contribute to the Pilbara receiving slightly more rainfall than the surrounding regions (Beard 1990, Bureau of Meteorology [BoM] 2024). Rainfall data from Millstream (station number 5012) and temperature data from Roebourne Aero (station number 4090) are illustrated in Figure 2.

Rainfall in the three months prior to the September 2024 field survey was approximately 158% of the long-term average for the corresponding period (Figure 2, BoM 2024).

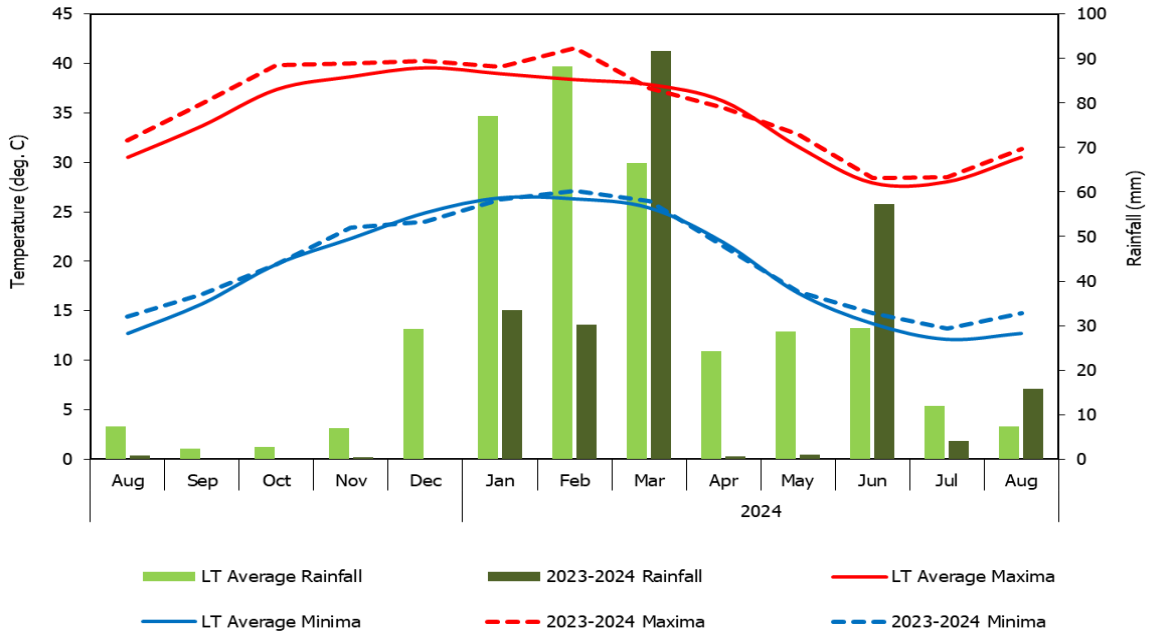


Figure 2: Rainfall and temperature data for Millstream and Roebourne Aero, respectively (BOM Station's 5012 and 4090 respectively) (BoM 2024).
LT – Long-term

4.3 Historical Vegetation Mapping

Vegetation of the Pilbara was first studied in detail by Gardner (1944) in his survey of the entire state of Western Australia, where he described the Chichester region as supporting Spinifex (*Triodia* spp.) and *Acacia* spp. Vegetation mapping by Gardner (1944) was reviewed and updated by Beard (1975) with a primary emphasis on rangeland vegetation suitable for pasture grazing. The 1:1,000,000 maps produced by Beard (1975) have since become the standardised reference for broad vegetation descriptions across Western Australia (Hopkins, Beeston and Shepherd 2001). In the central area of the Pilbara (now the Chichester IBRA sub-region), the predominant vegetation formations noted by Beard (1975) were tree and shrub steppe (hummock grassland) communities with *Eucalyptus* trees, *Acacia* shrubs and *Triodia pungens* and *T. wiseana* hummock grasses. Mulga (*Acacia aneura*) communities occur in valleys and short bunch grasslands occur on alluvial plains. Soils are primarily hard alkaline red soils on plains and pediments, and shallow and skeletal soils on the ranges. It should be noted here that the taxonomy of *Triodia* has change considerably since 1975, and Beard's application of *Triodia* species can no longer be relied upon.

Vegetation mapping of the region was again reviewed by Beard (1990), where he describes the Chichester region as *Eucalyptus leucophloia* and *Triodia wiseana* on the steepest and stony ground, *Acacia pyrifolia* and associates plus *T. pungens* on the gentler slopes. The latter association continues to provide the general cover on the summit plateau, but on the flatter sites and in depressions there are treeless grass plains of the bunch grasses *Aristida latifolia, A. contorta,* and *Iseilema vaginiflorum* with a range of herbs such as *Ptilotus carinatus, Crotalaria dissitiflora* and *Streptoglossa odora.* The *Ptilotus* may at times become dominant and extremely colourful when in flower. In the Fortescue valley (which lies approximately 10 km south of the Survey Area), Mulga (*Acacia aneura*) appears in the valleys, but is often replaced by *Acacia pyrifolia* in the western end of the valley. Samphire taxa (*Frankenia, Atriplex, Sclerolaena*) were also noted to be common on the plains of the Fortescue Valley.

4.4 Pre-European Vegetation

The pre-European vegetation dataset, prepared through the National Land and Water Resources Audit, describes vegetation in relation to natural resource boundaries commonly used for environmental reporting (Shepherd *et al.* 2001). The identification of the original pre-European and current extent of each of the vegetation types assist in providing baselines for managing issues such as land clearing (Shepherd *et al.* 2001). In more recent years Hopkins, Beeston and Shepherd (2001) delineated a series of vegetation maps based primarily on the work of John Beard carried out from 1964 to 1981.

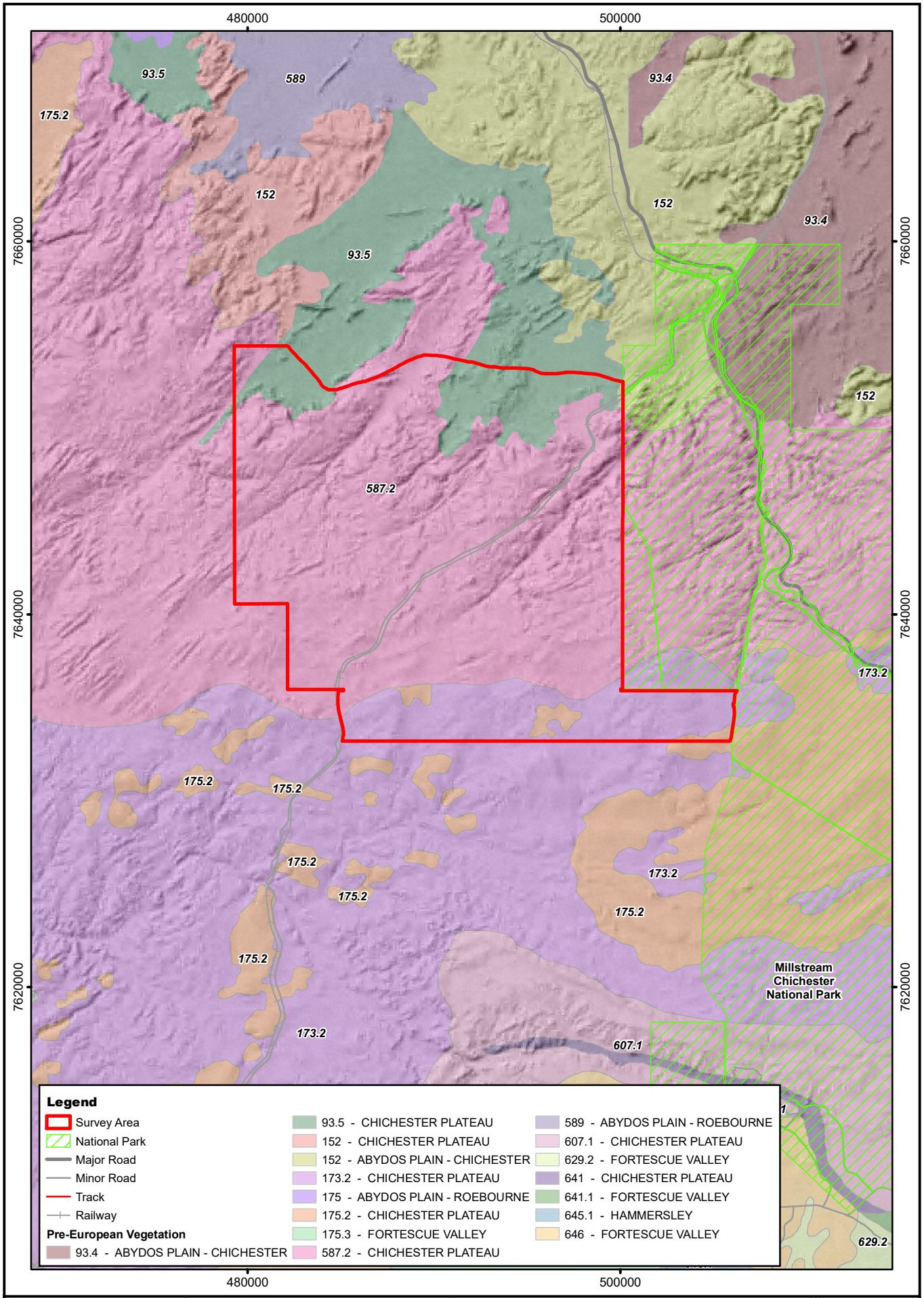
Based on pre-European vegetation mapping, the Survey Area intersects six units of the Chichester region (Table 1, Figure 3). Based on these pre-European vegetation unit descriptions, the Survey Area vegetation can be broadly described as sparse *Eucalyptus* woodlands and *Acacia* shrublands over varied hummock and tussock grasslands. The Survey Area intersects <10% of any given pre-European vegetation unit (Table 1).

4.5 Land Systems

The Department of Primary Industries and Regional Development, in its "An inventory and condition survey of the Pilbara region, Western Australia" (van Vreeswyk *et al.* 2004), describes a range of soil-landscape mapping units throughout the Pilbara based on topography, soil, and vegetation. The Survey Area intersects nine land systems as mapped by van Vreeswyk *et al.* (2004) (Table 1, Figure 4). The Survey Area intersects <8% of any given land system (Table 1).

Table 1: Extent of IBRA sub-region, pre-European vegetation, and land systems intersecting the Survey Area

Element	Component Description	Current Extent (ha)	Area of Intersection with Survey Area (ha)	Proportion of Current Extent
IBRA sub-region	Chichester (PIL01)	8,611,467.88	40,535.6	<0.47%
Pre-European Vegetation	Abydos Plain – Chichester (152) Grass steppe	129,961.93	35.37	0.03%
	Chichester Plateau (93.5) Hummock grassland with scattered shrubs or mallee *Triodia* spp. *Acacia* spp., *Grevillea* spp. *Eucalyptus* spp.	40,997.49	3,891.57	9.49%
	Chichester Plateau (152) Hummock grassland, *Triodia* spp.	8,413.43	0.04	<0.01%
	Chichester Plateau (173.2) Hummock grassland with scattered shrubs or mallee *Triodia* spp. *Acacia* spp., *Grevillea* spp. *Eucalyptus* spp.	1,126,272.74	5,280.94	0.47%
	Chichester Plateau (175.2) Annual grasses *Enneapogon* spp. *Aristida* spp. etc. on dry plains and salt water grasses *Sporobolus virginicus* on the coast	139,593.56	575.81	0.41%
	Chichester Plateau (587.2) Sparse low tree-steppe/Sparse shrub-steppe	461,715.36	30,751.73	6.66%
Land System	Boolaloo (289Bo) Granite hills, domes, tor fields and sandy plains supporting spinifex grasslands with scattered shrubs.	20,501.76	1,585.84	7.74%
	Boolgeeda (289Bg) Stony lower slopes and plains below hill systems supporting hard and soft spinifex grasslands or mulga shrublands.	81,274.43	255.22	0.31%
	Capricorn (282Cp) Rugged sandstone hills, ridges, stony footslopes and interfluves supporting low acacia shrublands or hard spinifex grasslands with scattered shrubs.	137,682.5	8,835.82	6.42%
	Capricorn (289Cp) Rugged sandstone hills, ridges, stony footslopes and interfluves supporting low *Acacia* shrublands or hard spinifex grasslands with scattered shrubs.	62,986.5	2,600.50	4.13%
	Macroy (289Mc) Stony plains and occasional tor fields based on granite supporting hard and soft spinifex shrubby grasslands.	38,872.455	1,118.04	2.88%
	River (282Ri) Narrow, seasonally active flood plains and major river channels supporting moderately close, tall shrublands or woodlands of *Acacia*s and fringing communities of eucalypts sometimes with tussock grasses or spinifex.	21,835.96	81.23	0.37%
	River (289Ri) Narrow, seasonally active flood plains and major river channels supporting moderately close, tall shrublands or woodlands of acacias and fringing communities of eucalypts sometimes with tussock grasses or spinifex	39,452.46	366.65	0.93%
	Rocklea (282Rk) Basalt hills, plateaux, lower slopes and minor stony plains supporting hard spinifex and occasionally soft spinifex grasslands with scattered shrubs.	940,339.29	23,751.15	2.53%
	Wona (282Wo) Basalt upland gilgai plains supporting Roebourne Plains grass and Mitchell grass tussock grasslands, minor hard spinifex grasslands or annual grasslands/herbfields.	176,907.91	1,941.01	1.10%



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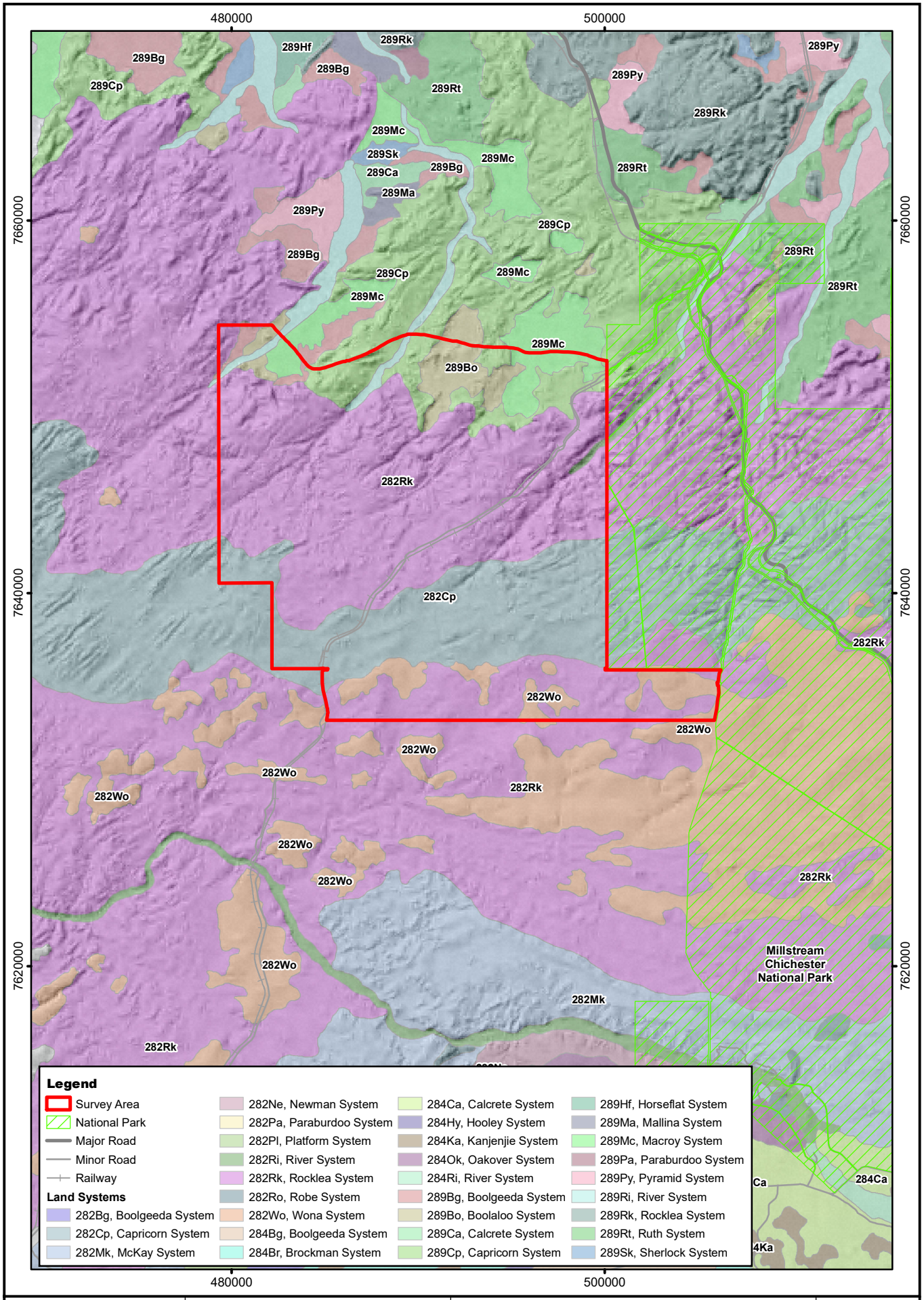
Yindjibarndi Energy Corporation
Yindjibarndi Renewable Energy Project
Pre-European Vegetation

Figure: **3**



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Land Systems

Figure: **4**

4.6 DBCA Managed Lands

The Survey Area is located adjacent to Millstream Chichester National Park (Figure 1), Western Australia's eighth largest National Park occupying 238,344 ha. Millstream Chichester National Park is recognised for its culturally and ecologically significant aquifer fed wetlands which provide habitat for a diverse range of flora and fauna, many of which are endemic to the Pilbara (DEC 2011). Plant species growing in and around these permanent pools (e.g., *Livistona alfredii* (P4)) are more typical of tropical habitats further north and have a restricted range within the Pilbara region (DEC 2011).

4.7 Threatened Ecological Communities (TECs)

No TECs pursuant to sections 181 and 182 of the EPBC Act and listed by DCCEEW (2024b), or pursuant to Part 2 of the BC Act and as listed by DBCA (2024c) were recorded in the desktop assessment.

4.8 Priority Ecological Communities (PECs)

The DBCA maps predictive PEC boundaries throughout the state based on a range of data inputs such as historical landscape and vegetation surveys, satellite imagery, and topographical data. The accuracy of the predictive PEC polygons mapped by DBCA has not always been verified, and field surveys are necessary to confirm the presence, and actual extent of, any PEC. Eight PECs listed by the DBCA (2024a) were identified as potentially occurring within the desktop assessment area, one of which is mapped by the DBCA within the Survey Area (Figure 5).

4.8.1. Four Plant Assemblages of the Wona Land System PECs

These four PECs, previously referred to collectively as the 'Cracking clays of the Chichester and Mungaroona Range PEC' have recently been split into four more refined PECs (DBCA 2024a):

- **Cracking clays of the Chichester and Mungaroona Range PEC (P1):** This shrubless plain of stony gibber community occurs on the tablelands with very little vegetative cover during the dry season, however during the wet a suite of ephemerals/annuals and short-lived perennials emerge, many of which are poorly known and range-end taxa.
- **Annual *Sorghum* grasslands on self-mulching clays with a moderate-dense overlay of rocks PEC (P1):** This community appears very rare and restricted to the Pannawonica-Robe valley end of Chichester Range. This PEC is naturally species poor when dry.
- **Mitchell grass plains (*Astrebla* spp.) on gilgai PEC (P3)**
- **Mitchell grass and Roebourne Plain grass (*Eragrostis xerophila*) plain on gilgai PEC (P3):** Commonly containing the taxa: *Astrebla pectinata, A. elymoides, E. xerophila, Aristida latifolia, Eriachne* spp. and *Sida fibulifera.*

The predictive PEC polygons delineating these four PECs loosely correspond with the Chichester Plateau (175.2) pre-European vegetation unit (Shepherd *et al.* 2001), and intersects the Survey Area (Figure 5). Predictive PEC polygons sourced from the DBCA have not yet been updated to reflect the recent split of these four PECs.

4.8.2. Horseflat Land System of the Roebourne Plains PEC (P3)

The Horseflat Land System of the Roebourne Plains PEC (P3), identified approximately 10 km north of the Survey Area (Figure 5), is described at the broadest level as "Gilgaied clay plains supporting tussock grasslands and minor grassy snakewood shrublands" (van Vreeswyk *et al.* 2004). More specifically, this PEC is described as extensive clay plains dominated by tussock grasslands on mostly alluvial, gilgaied and non-gilgaied red clay loams. This PEC is dominated by perennial tussock grasses include *Eragrostis xerophila*, *Chrysopogon fallax* and other *Eragrostis* spp. and *Eriachne* spp. The PEC also supports a suite of annual grasses including *Dichanthium* spp. and *Sorghum* spp. (DBCA 2024a).

Of the eight land units mapped by van Vreeswyk *et al.* (2004) as comprising the Horseflat Land System, only units three (excluding areas of snakewood and hummock grass; mosaic areas, and areas of heavily gilgaied soils), four, five, and seven are reported to constitute this PEC (DBCA 2024a). The vegetation and landform descriptions for these relevant Horseflat land units are set out in Table 2 below. Threats to the Horseflat Land Systems of the Roebourne Plains PEC (P3) identified by DBCA (2024a) include grazing, weed invasion, fragmentation, clearing for mining, infrastructure, and solar farms.

Table 2: Land units of the Horseflat Land System representing the Horseflat Land System of the Roebourne Plains PEC (P3) (van Vreeswyk *et al.* 2004)

Land Unit	Landform	Soil	Vegetation
3	Gilgaied plains - level plains extending for up to 3 km or as a tight mosaic (10- 200 m in diameter) with similarly sized non-gilgaied plains (unit 4) or they may be linearly arranged; gilgai microrelief; surface mantles vary from nil to abundant pebbles of ironstrone, basalt and other rocks.	Self-mulching cracking clays	Mostly tussock grasslands dominated by *Eragrostis xerophila* but also other grasses such as *Chrysopogon fallax* and *Eriachne benthamii.*
4	Non gilgaied, sometimes stony plains - almost level plains extending up to 2 km but more usually as much smaller patches between gilgaied areas (unit 3), marginally higher than unit 3, surface mantles vary from nil to abundant pebbles and cobbles of ironstone, basalt and other rocks.	Deep red/brown noncracking clays	Very scattered to scattered tall and mid height shrublands of *Acacia xiphophylla* with tussock grasses mostly *Eragrostis xerophila*. Also, patchy tussock and annual grasslands and hummock grasslands of *Triodia wiseana*, *T. longiceps* (hard spinifex).
5	Alluvial plains - level plains 1-2 km in extent often adjacent to dissected slopes (unit 6) or as slightly lower inclusions in gilgaied plains (unit 3); no surface mantles, subject to occasional flooding.	Deep red/brown noncracking clays with some self-mulching cracking clays	Tussock grasslands with *Eragrostis xerophila, Eriachne benthamii, Chrysopogon fallax, *Cenchrus ciliaris*; also tussock grasslands with shrub *Atriplex bunburyana.* Occasionally *Triodia* spp. hummock grasslands.
7	Drainage depressions - generally narrow (20-200 m wide, occasionally much larger) linear drainage zones running through and marginally lower than units 3 and 4; mostly unchanneled.	Deep red/brown noncracking clays and red loamy earths	Dense tussock grasslands including *Eriachne benthamii, Chrysopogon fallax* with occasional eucalypt trees and shrubs such as *Acacia farnesiana.*

4.8.3. Kanjenjie Land System PEC (P3)

The Kanjenjie Land System PEC (P3) predictive polygons are located approximately 20 km south of the Survey Area (Figure 5). At the broadest level, the Kanjenjie Land System PEC (P3) is described as stony clay plains supporting tall shrublands of mulga, snakewood and other Acacias with an understorey of low shrubs or perennial grasses. Some parts are noted to support tussock grasslands of Mitchell grass or Roebourne Plains grass with few shrubs. The Kanjenjie Land System PEC (P3) as mapped by van Vreeswyk

et al. (2004) comprises four land units set out in Table 3 below. Threats to this PEC identified by DBCA (2024a) are restricted to over grazing.

Table 3: Land units of the Kanjenjie Land System PEC (P3) (van Vreeswyk *et al.* 2004)

Land Unit	Landform	Soil	Vegetation
1	**Calcrete platforms** - level plains up to 500 m in extent raised 1-2 m above surrounding plains, surface mantles of abundant to very abundant pebbles and cobbles of calcrete.	Calcareous shallow loams.	Hummock grasslands of *Triodia wiseana* with very scattered to scattered shrubs including *Acacia bivenosa* and *A. xiphophylla.*
2	**Stony plains** - level or very gently inclined plains up to 3 km in extent or as a much smaller mosaic with stony gilgai plains (unit 3), surface mantles of common to abundant pebbles and cobbles of calcrete.	Calcareous loamy earths, deep red/brown non-cracking clays, and self-mulching cracking clays.	Scattered tall shrublands dominated by *A. xiphophylla*, numerous other shrubs and tussock grasses *Astrebla pectinata*, *Chrysopogon fallax, Eragrostis xerophila*, or hummock grass *Triodia wiseana*.
3	**Stony gilgai plains** - level plains up to 4 km in extent or as a smaller mosaic with stony plains (unit 2), surface mantles vary from few to abundant pebbles of calcrete and/or ironstone.	Self-mulching cracking clays.	Scattered to moderately close tall shrublands dominated by *A. xiphophylla,* numerous other shrubs and tussock grasses *Astrebla* spp., *Chrysopogon fallax, Eragrostis xerophila.*
4	**Drainage tracts** - occasional level tracts up to 300 m wide with sluggish, poorly defined, grassy channels up to 50 m wide.	Deep red/brown non-cracking clays.	As for unit 3.

4.8.4. Kumina Land System PEC (P3)

The Kumina Land System PEC (P3) is predictively mapped by DBCA as occurring approximately 37 km south of the Survey Area (Figure 5). At the broadest level, the Kumina Land System PEC (P3) is described as Ferricrete duricrust plains, uplands and plateaux remnants with relief of up to 15 m, and duricrust plains and plateau remnants support hard spinifex grasslands. The Kumina Land System PEC (P3), as mapped by van Vreeswyk *et al.* (2004), comprises three land units, as set out in Table 4 below. Threats to this PEC identified by DBCA (2024a) are restricted to over grazing.

Table 4: Land units of the Kumina Land System PEC (P3) (van Vreeswyk *et al.* 2004)

Land Unit	Landform	Soil	Vegetation
1	**Stony plains** - level to gently undulating upland plains extending for up to 6 km but usually smaller; surface mantles of abundant to very abundant pebbles and cobbles of ironstone.	Red loamy earths	Shrubby hummock grasslands with *Triodia wiseana, T. angusta, Triodia* sp. with scattered *Acacia atkinsiana*, *A. ancistrocarpa* and other Acacias and low shrubs, occasional small eucalypt trees.
2	**Low rises** - rounded rises up to 500 m in extent with gently inclined slopes and relief to 10 m; surface mantles of abundant to very abundant pebbles and cobbles of ironstone, also ironstone rock outcrop.	Red shallow loams	As for unit 1
3	**Drainage tracts** - tributary drainage tracts as shallow depressions with or without channels within stony plains (unit 1)	Red loamy earths	Scattered to moderately close tall shrublands with *Acacia aneura* (mulga), other Acacias and occasional eucalypt trees, *Triodia* spp. hummock grass ground layer

4.8.5. Riparian Flora and Plant Communities of Springs and River Pools with High Water Permanence of the Pilbara Region PEC (P2)

The Riparian Flora and Plant Communities of Springs and River Pools with High Water Permanence of the Pilbara Region PEC (P2) (hereinafter referred to as the Riparian Flora and Plant Communities PEC) was identified by three predictive polygons approximately 20 km south of the Survey Area (Figure 5). This PEC includes flora with restricted distributions or populations that are highly disjunct or are major range extensions from northern and eastern Australia. These taxa include *Imperata cylindrica, Cladium procerum* (P2), *Schoenus falcatus* and *Fimbristylis sieberiana* (P3). In the Pilbara these taxa are almost exclusively restricted to the riparian zones of permanent wetlands with high soil moisture maintained by groundwater flows. Occurrences are disjunct with sites typically associated with groundwater discharge in gorge and valley wetlands that are often coupled with significant shading (DBCA 2024a). Threats to the Riparian Flora and Plant Communities PEC (P2) identified by the DBCA (2024a) include hydrological change associated with mining, altered fire regimes, weed invasion (**Cenchrus ciliaris*, **Passiflora foetida*), grazing (camels) and increased visitation.

In his survey of Pilbara riparian flora and plant communities, Lyons (2015) identified five types of riparian vegetation:

1. Large claypans and turbid creek pools with broad margins;
2. Claypans and clay flats, rock pools and riverine sites with fine textured soils;
3. Salt marshes;
4. Springs and river pools with high water permanence; and
5. River pools and creeks.

Vegetation type four, springs and river pools with high water permanence, is used to define the Riparian Flora and Plant Communities PEC (P2) (DBCA pers. comm. 2023). Lyons (2015) sampled 23 sites from river pools and 11 from spring sites throughout the Pilbara. Indicator species for this vegetation type (and the subsequent PEC) were *Schoenoplectus subulatus* and *Fimbristylis sieberiana* (P3), and structurally dominant species included *Melaleuca argentea, Eucalyptus camaldulensis* subsp. *refulgens, Acacia ampliceps, Typha domingensis* and *Cyperus vaginatus.* Taxa recorded by Lyons (2015) and noted as being dependent on springs and spring fed river pools for mesic refugia in the Pilbara include *Livistona alfredii* (P4)*, Stylidium weeliwolli* (P3) and *Fimbristylis sieberiana* (P3), and major distributional outliers such as *Cladium procerum* (P2)*, Phragmites karka, Imperata cylindrica* and *Adiantum capillus-veneris* (P2). While the Riparian Flora and Plant Communities PEC (P2) constitutes a groundwater-dependent ecosystem (GDE), it does not encompass all types of GDE (see section 4.8).

4.9 Groundwater-dependent Ecosystems (GDEs)

Groundwater-dependent ecosystems are ecosystems that are totally, partially or seasonally dependent on groundwater and can be categorised into three broad groups (Nevill *et al.* 2010):

1. Surface terrestrial: phreatophytic and riparian vegetation.
2. Surface aquatic: permanent springs, streams, rivers, and flow-through lakes.
3. Subterranean: Aquifers and wet caves.

For the purposes of this desktop assessment, only surface terrestrial GDEs are relevant. In the semi-arid Pilbara region where rainfall is intensely seasonal (see section 4.2), groundwater supports vegetation types which would otherwise perish in long dry summers. Most commonly throughout the Pilbara, vegetation in larger seasonal creeks commonly constitutes *Eucalyptus camaldulensis, Eucalyptus victrix* and *Melaleuca argentea* woodlands (Beard 1975), with GDEs representing approximately 4% of the Pilbara IBRA region (Alaibakhsh *et al.* 2017). These groundwater-dependent species serve as indicators of GDEs in the Pilbara (O'Grady *et al.* 2006, Pettit and Froend 2018).

While GDEs in the Pilbara are not afforded protection under any legislation, it is recognized that they represent sensitive areas and direct (clearing) and indirect (hydrological alterations) impacts should be

avoided or minimized. It should be noted that GDEs as discussed here differ from the Riparian Flora and Plant Communities PEC (P2), which constitutes a specific type of GDE dependent on springs and permanent river pools in the Pilbara region (see section 4.8.5).

4.10 Flora

A total of 805 vascular plant species representing 75 families and 261 genera were identified in the desktop assessment (Appendix B). The most frequently represented families were Fabaceae (154 taxa), Poaceae (118 taxa), Malvaceae (72 taxa).

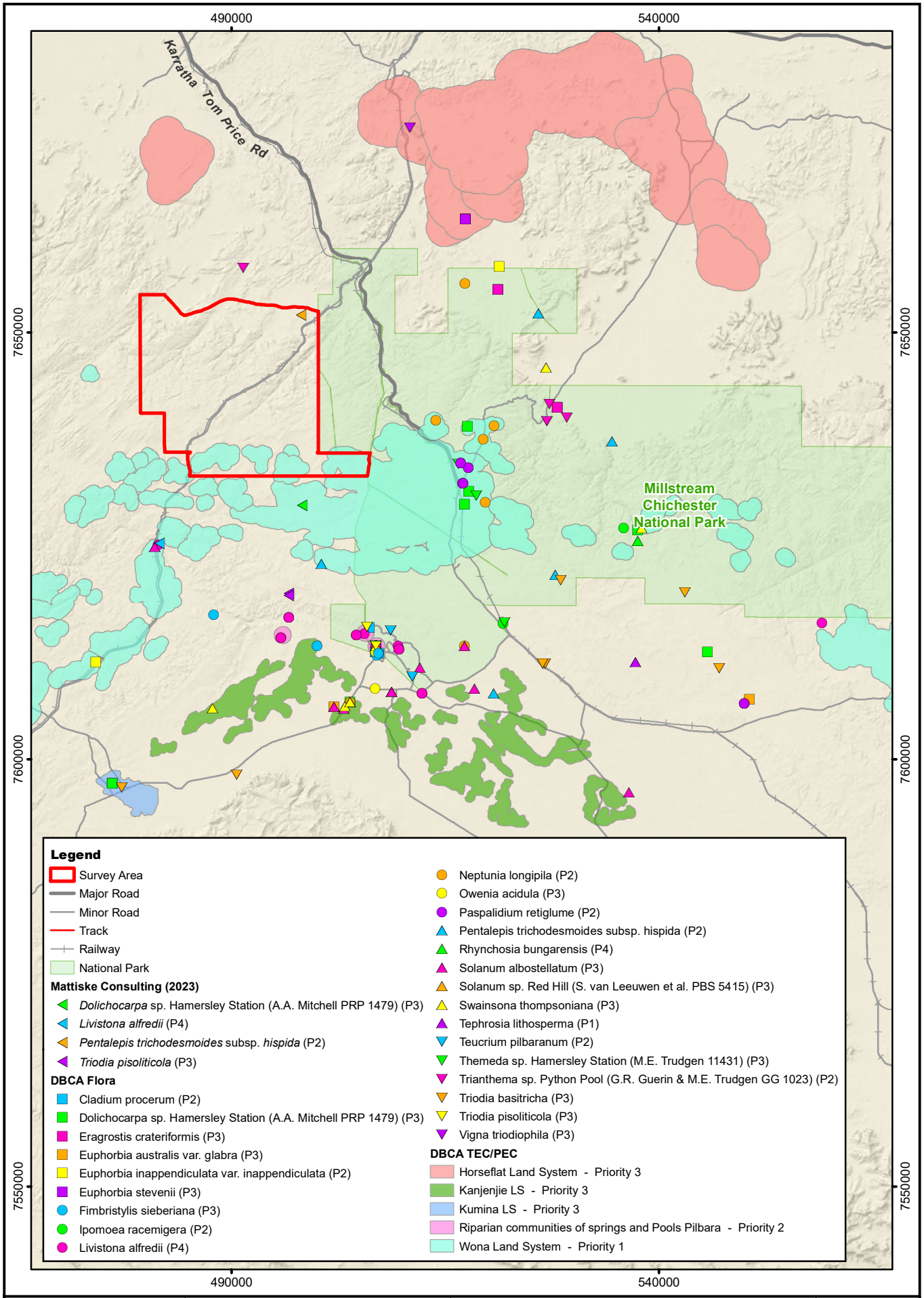
4.11 Conservation Significant Flora

One threatened taxon, as listed in the Biodiversity Conservation (Listing of Native Species) (Flora) Order 2023 (DBCA 2024b), pursuant to section 179 of the Environment Protection and Biodiversity Conservation Act 1999 and as listed by the DCCEEW (2024a), was recorded during this desktop assessment (Appendix B). This taxon is *Thryptomene wittweri* (T).

A further 24 priority flora taxa were also recorded, as listed by DBCA (Appendix B, WAH 1998-). These 24 priority taxa comprised one priority one taxon, eight priority two taxa, 13 priority three taxa, and two priority four taxa. An assessment of the likelihood of these 25 conservation significant taxa occurring within the Survey Area, based on factors such as known species distribution, soil, topography, and geologic affinities is set out in Appendix C. Table 5 below summarises the likelihood assessment set out in Appendix C. Note this is an assessment of the likelihood of conservation significant taxa occurring within the Survey Area, as opposed to an assessment of recording the conservation significant taxa. Annual taxa are less likely to be recorded during this post-dry season detailed survey, but would be more likely to be detected during the proposed 2025 post-wet season survey. For this reason, the lifeform of each conservation significant taxon is also presented in Table 5 below. Nine of the 25 conservation significant taxa identified here are annual taxa, and are therefore less likely to be present/detectable at the time of the September 2024 field survey.

Table 5. Summary of the conservation significant flora recorded in the desktop assessment, and their assessed likelihood of occurring within the Survey Area

Family	Species	Lifeform	Likelihood of Occurrence
Aizoaceae	*Trianthema* sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)	Annual	Likely
Arecaceae	*Livistona alfredii* (P4)	Perennial	Potential
Asteraceae	*Pentalepis trichodesmoides* subsp. *hispida* (P2)	Perennial	Recorded
Convolvulaceae	*Ipomoea racemigera* (P2)	Annual	Potential
Cyperaceae	*Cladium procerum* (P2)	Perennial	Potential
Cyperaceae	*Fimbristylis sieberiana* (P3)	Perennial	Unlikely
Euphorbiaceae	*Euphorbia australis* var. *glabra* (P3)	Annual	Unlikely
Euphorbiaceae	*Euphorbia inappendiculata* var. *inappendiculata* (P2)	Annual	Likely
Euphorbiaceae	*Euphorbia stevenii* (P3)	Perennial	Potential
Fabaceae	*Neptunia longipila* (P2)	Perennial	Potential
Fabaceae	*Rhynchosia bungarensis* (P4)	Perennial	Potential
Fabaceae	*Swainsona thompsoniana* (P3)	Annual	Potential
Fabaceae	*Tephrosia lithosperma* (P1)	Perennial	Potential
Fabaceae	*Vigna triodiophila* (P3)	Annual	Potential
Lamiaceae	*Teucrium pilbaranum* (P2)	Perennial	Unlikely
Meliaceae	*Owenia acidula* (P3)	Perennial	Potential
Myrtaceae	*Thryptomene wittweri* (T)	Perennial	Unlikely
Poaceae	*Eragrostis crateriformis* (P3)	Annual	Unlikely
Poaceae	*Paspalidium retiglume* (P2)	Annual	Potential
Poaceae	*Themeda* sp. Hamersley Station (M.E. Trudgen 11431) (P3)	Perennial	Potential
Poaceae	*Triodia basitricha* (P3)	Perennial	Potential
Poaceae	*Triodia pisoliticola* (P3)	Perennial	Potential
Rubiaceae	*Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)	Annual (unconfirmed)	Likely
Solanaceae	*Solanum albostellatum* (P3)	Perennial	Potential
Solanaceae	*Solanum* sp. Red Hill (S. van Leeuwen et al. PBS 5415) (P3)	Perennial (unconfirmed)	Unlikely



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Yindjibarndi Energy Corporation
Yindjibarndi Renewable Energy Project
Desktop Conservation Significant Flora and Communities

Figure: **5**

4.12 Introduced (Weed) Plant Species

A total of 37 introduced (weed) plant taxa were recorded from the desktop assessment (Table 6). With the exception of one taxon, all introduced taxa are permitted species pursuant to Section 11 of the BAM Act.

**Parkinsonia aculeata* is listed as a Declared Pest pursuant to Section 22(2) of the BAM Act. **Parkinsonia aculeata* is a Declared pest for the whole of Western Australia (DPIRD 2024b), and is subject to Control Category C3 (management) control measures (Appendix A3).

Table 6: Introduced plant species recorded in the desktop assessment

Family	Taxon	Lifeform
Amaranthaceae	**Aerva javanica*[1]	Perennial
Amaranthaceae	**Alternanthera angustifolia*[1]	Annual
Apiaceae	**Cyclospermum leptophyllum*[1]	Annual
Arecaceae	**Phoenix dactylifera*[1]	Perennial
Arecaceae	**Washingtonia filifera*[1]	Perennial
Asteraceae	**Acanthospermum hispidum*[1]	Annual
Asteraceae	**Flaveria trinervia*[1]	Annual
Asteraceae	**Sonchus oleraceus*[1]	Annual
Brassicaceae	**Lepidium didymum*[1]	Annual
Chenopodiaceae	**Chenopodium murale*[1]	Annual
Convolvulaceae	**Distimake dissectus* var. *dissectus*[1]	Annual or perennial
Cucurbitaceae	**Citrullus colocynthis*[1]	Annual
Fabaceae	**Crotalaria juncea*[1]	Annual
Fabaceae	**Parkinsonia aculeata*[2]	Perennial
Fabaceae	**Vachellia farnesiana*[1]	Perennial
Malvaceae	**Malvastrum americanum*[1]	Perennial
Malvaceae	**Malvastrum coromandelianum*[1]	Annual or perennial
Malvaceae	**Melochia pyramidata*[1]	Perennial
Malvaceae	**Sida rhombifolia*[1]	Perennial
Nymphaeaceae	**Nymphaea pubescens*[1]	Perennial
Papaveraceae	**Argemone ochroleuca*[1]	Annual
Passifloraceae	**Passiflora foetida* var. *hispida*[1]	Annual or perennial
Poaceae	**Cenchrus ciliaris*[1]	Perennial
Poaceae	**Cenchrus echinatus*[1]	Perennial
Poaceae	**Cenchrus setiger*[1]	Perennial
Poaceae	**Chloris barbata*[1]	Perennial
Poaceae	**Chloris virgata*[1]	Annual
Poaceae	**Cynodon dactylon*[1]	Perennial
Poaceae	**Echinochloa colona*[1]	Annual
Poaceae	**Eragrostis tenella*[1]	Perennial
Poaceae	**Setaria verticillata*[1]	Annual
Polygonaceae	**Rumex vesicarius*[1]	Perennial
Portulaceae	**Portulaca pilosa*[1]	Annual

Family	Taxon	Lifeform
Solanaceae	**Datura leichhardtii* subsp. *leichhardtii*[1]	Perennial
Verbenaceae	**Phyla nodiflora* var. *nodiflora*[1]	Perennial
Zygophyllaceae	**Tribulus terrestris*[1]	Annual

[1] BAM Act s11 (permitted organism); [2] BAM Act s22(2) (declared pest).

4.13 Commonwealth Protected Matters

The Commonwealth PMST (DCCEEW 2024c) report identified one Nationally Important Wetland within the desktop survey area, the Millstream Pools. This wetland occupies a 20 km stretch of the Fortescue River inside Millstream Chichester National Park including four permanent river pools and a spring fed pool that flows to the river through a marshland. The low closed-forests surrounding the Millstream Pools are dominated by *Eucalyptus camaldulensis, Melaleuca leucadendra* and *Sesbania formosa;* closed-sedgeland is dominated by *Typha orientalis* with some *Phragmites karka*. *Livistona alfredii* (P4), a relic of a humid tropical paleo-climate in this area, is endemic to north-western Australia and the main occurrence is at Millstream. Threats to the Millstream Pools identified by DCCEEW wetland include groundwater extraction, river bed erosion, sediment deposition, and weed invasion (DCCEEW 2019).

The PMST did not locate World Heritage Properties or Wetlands of International Importance, World Heritage Properties, National Heritage Places, or TECs in or near the Survey Area.

5. FIELD SURVEY RESULTS

The detailed flora and vegetation survey was undertaken by four botanists between the 2nd and 7th September 2024. A total of 214 vegetation survey sites (quadrats and relevés) were established throughout the Survey Area to sample the vegetation present. These 214 survey sites were combined with the 29 survey sites established by Mattiske Consulting (2023) within the Survey Area for a total of 243 survey sites within the Survey Area (Table 7). Due to the poor vehicle access and rugged terrain throughout most of the Survey Area, access for this detailed survey was via helicopter. The geographical coordinates of the north-west corner of the survey sites established during this survey, and the type of survey sites they represent, are set out in Appendix D and illustrated in Figure 6. Relevé sites were named with an R (e.g., R232), and quadrats named with a Q (e.g., Q001). In addition to survey quadrats and relevés, additional species were recorded opportunistically.

Table 7: Summary of the vegetation survey sites established within the Survey Area

Survey	Quadrat	Relevé	Total
Mattiske Consulting (2023)	24	5	29
This Survey	154	60	214
Total	178	65	**243**

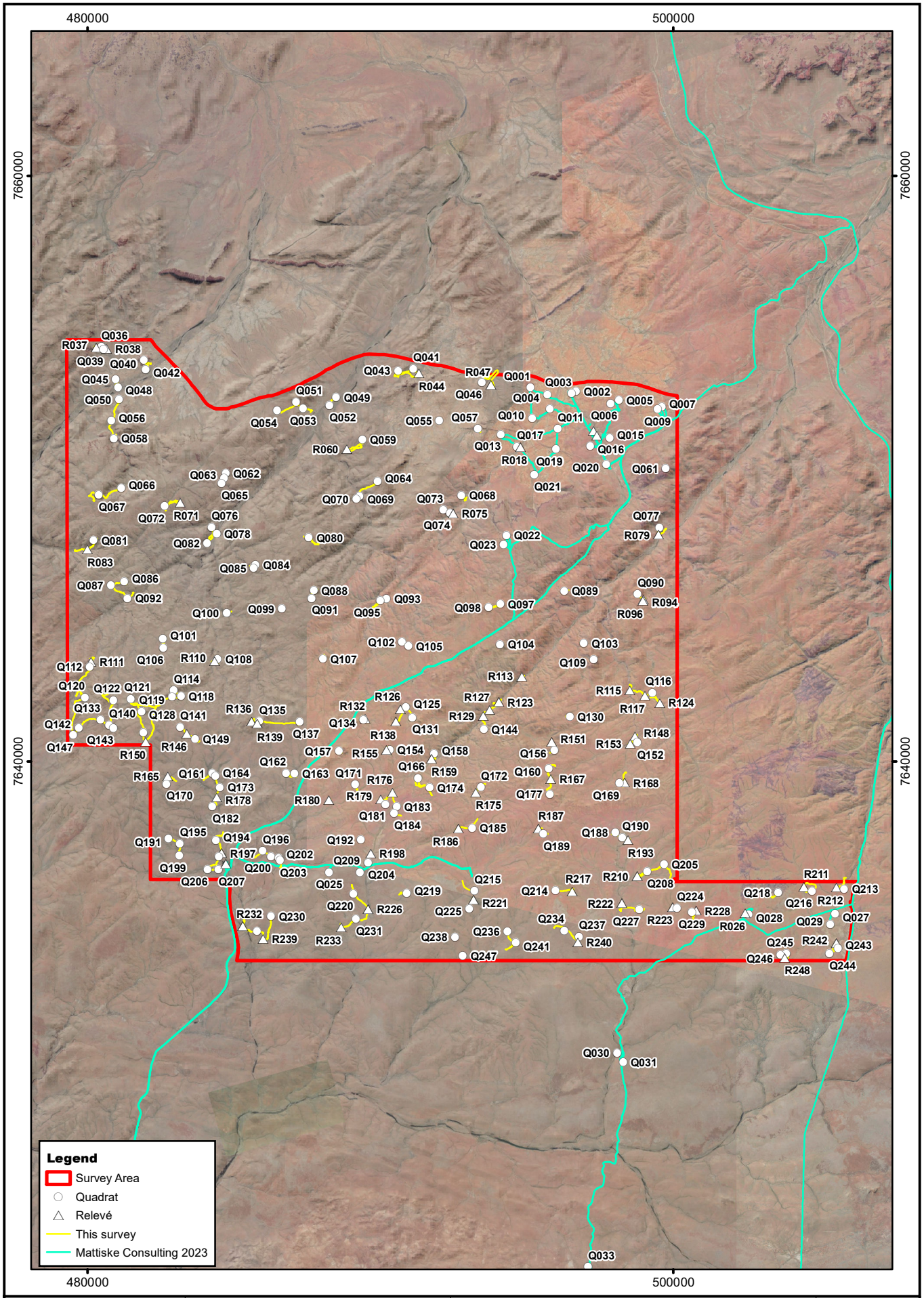
An assessment of the survey against a range of factors which may have had an impact on the outcomes and conclusions made here is set out in Table 8 below. Based on this assessment, and given the scope of this survey, this survey has not been subject to constraints affecting the thoroughness of the survey and the conclusions which have been formed.

Table 8: Potential flora and vegetation survey limitations

Potential Survey Limitation	Impact on Survey
Sources of information and availability of contextual information (i.e., pre-existing background versus new material).	**Not a constraint.** The desktop assessment was reviewed prior to undertaking the field survey, including flora and vegetation data from Mattiske Consulting (2023) from within the Survey Area. This desktop assessment provided an appropriate level of information for the survey.
Scope (i.e., which life forms, etc., were sampled).	**Not a constraint.** Vascular flora, which was the focus of the present survey, was sampled during a detailed flora and vegetation survey.
Completeness and further work which might be needed (i.e., was the survey area fully surveyed).	**Not a constraint**. The scope of this survey was to undertake a post-dry season detailed flora and vegetation survey during the recommended survey period for the region (after winter rainfall if available (EPA 2016b)). Rainfall in the three months preceding the September 2024 survey was 158% of the long-term average for the corresponding period (section 4.2 of this report). Further, the YEC has also committed to undertake a second phase of this survey during the recommended post-wet season period of 2025 (March-June (EPA 2016b)) to build upon the results presented here. During December 2024, approximately one third of the Survey Area was burnt in the north and northwest. Vegetation in these recently burnt areas at the time of the September 2024 field survey was sparse and juvenile, despite the above average dry-season rainfall for the region. Despite this, vegetation was still largely identifiable, and the vegetation communities were distinguishable. During the post-wet season survey scheduled for 2025, a subset of the survey sites established in these burnt areas will be reassessed, and more sites will be established. Given the post-dry season scope of this survey, and the post-wet season phase of this survey scheduled for 2025, the intensity and coverage of this survey was considered adequate.

Potential Survey Limitation	Impact on Survey
Proportion of flora collected and identified (based on sampling, timing and intensity).	**Not a constraint.** Based on the survey quadrat data, it was estimated that approximately 84.58% of the potential flora species that may be present within the Survey Area were recorded (see Section 5.2). This majority of species recorded were flowering or fruiting, and could be identified to species level. Additionally, all four botanists who undertook the survey were familiar with Pilbara flora, and were able to identify many taxa even when sterile. Two botanists had direct experience with the flora within the Survey Area (Mattiske Consulting 2023). The estimated percentage of potential flora species recorded (84.58%) was considered adequate. Given the timing of the survey, some annual taxa may not have been present during the field survey. This constraint is mitigated by the post-wet season phase of this survey scheduled for early 2025, when the proportion of annual taxa present will be higher. This is particularly relevant for the detection of the eight annual conservation significant taxa identified during the desktop assessment.
Mapping reliability.	**Not a constraint.** The spatial coverage of survey sites within the Survey Area is considered to be adequate. The quality of the aerial photographic maps available for the survey was considered to be excellent. Some vegetation in the north and northwest of the Survey Area had been burnt in December 2024, and regrowth was immature. Survey sites in this recently burnt area will be reassessed during the post-wet season survey scheduled for early 2025, when vegetation will be older and more readily identifiable.
Timing, weather, season, cycle.	**Not a constraint.** The EPA (2016b) recommends that flora and vegetation surveys in the Eremaean botanical provinces take place 6-8 weeks post wet season (March – June), with supplementary surveys in the dry season (after winter rainfall if available). Rainfall in the three months preceding this survey was 158% of the long-term average for the corresponding period (BoM 2024). This provided excellent seasonal conditions for this survey, and the majority of taxa could be identified to species level. A post-wet season phase of this survey is scheduled for early 2025, and will build upon the results presented here.
Disturbances (fire, flood, accidental human intervention, etc.).	**Not a constraint**. The Survey Area exhibited very low levels of disturbance, in terms of human impacts. Vehicle tracks following the powerline easement from the northeast to the southwest of the Survey Area roughly following the Rio Tinto rail road. A powerline easement also intersects the southeastern corner of the Survey Area. Minor vehicle tracks were also present in the northwest of the Survey Area, and a main access track to Ngurrawaana runs through the southern portion of the Survey Area. Some evidence of cattle and light grazing were present in some creeks across the Survey Area in the form of weeds, scats, and snapped branches on trees and shrubs, but did not appear to have altered the structure or composition of the vegetation. During December 2024, approximately one third of the Survey Area was burnt in the north and northwest. Vegetation in these recently burnt areas at the time of the September 2024 field survey was sparse and juvenile, despite the above average dry-season rainfall for the region. Despite this, vegetation was still largely identifiable, and the vegetation communities were distinguishable. During the post-wet season survey scheduled for 2025, a subset of the survey sites established in these burnt areas will be reassessed, and more sites will be established.
Intensity (in retrospect, was the intensity adequate).	**Not a constraint**. The intensity of the survey effort within the Survey Area was considered to be adequate. Survey intensity in some areas, particularly in the recently burnt portions of the Survey Area, will be increased in the post-wet season survey scheduled for early 2025.

Potential Survey Limitation	Impact on Survey
Resources (i.e., were there adequate resources to complete the survey to the required standard).	**Not a constraint**. Resources, in terms of equipment, support and personnel were good.
Access problems (i.e., ability to access the survey area).	**Not a constraint**. Vehicle access to much of the Survey Area was limited, with just the rail access road running from the northeast to the southwest, and the Ngurawaana track along the southern edge of the Survey Area. For this reason, access for this survey was via helicopter from Karratha for the entirety of the 6-day field survey.
Experience levels (e.g., degree of expertise in plant identification to taxon level).	**Not a constraint**. All botanists taking part in the survey had extensive experience working in the Pilbara region and had a high level of familiarity with the local flora. Two of the four botanists had direct experience with the flora within the Survey Area (Mattiske Consulting 2023).



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Scale: 1:175,000
MGA94 (Zone 50)

CAD Ref: a2994F011_05

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Yindjibarndi Energy Corporation
Yindjibarndi Renewable Energy Project
Quadrat Locations and Track and Foot Traverses

Figure: **6**

5.1 Flora

A total of 297 vascular plant taxa which are representative of 143 genera and 49 families were recorded during the 2024 field survey. When combining the 2024 field survey data with that collected by Mattiske Consulting (2023) within the Survey Area, a total of 343 vascular plant taxa representative of 52 families and 156 genera have been recorded within the Survey Area. From this combined dataset, the most commonly recorded taxa were representative of the Fabaceae (65 taxa), Poaceae (57 taxa) and Malvaceae (32 taxa) families.

The taxa recorded during this survey are set out in Appendix B alongside the Yindjibarndi names for some taxa (Greening Australia 2016). A list of plant taxa recorded at each survey site within the Survey Area (established during both this survey and by Mattiske Consulting 2023) is set out in Appendix E.

A number of plant species were depauperate and could not be identified accurately to species level due to the absence of sufficient diagnostic taxonomic characters. In these cases, the species is identified as, for example, *Grevillea* sp. All plant specimens suspected of representing conservation significant taxa were submitted to the WAH for formal identification. All plants which were submitted to the WAH for identification by specialist taxonomists are set out in Table 9 below.

Table 9: Plant specimens submitted to the WAH for identification

Accession	Collection Number	Taxon
ACC/11182	ZS5426	*Astrebla elymoides*
	ZS5394	*Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)
	JTC384	*Dolichocarpa crouchiana*
	KRT1160	*Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)
	AP1444	*Euphorbia australis* var. *subtomentosa*
	ZS5434	*Euphorbia vaccaria* var. *vaccaria*
	ZS5284	*Euphorbia trigonosperma*
	ZS5328	*Euphorbia australis* var. *subtomentosa*
	JTC351	*Euphorbia careyi*
	ZS5395	*Euphorbia inappendiculata* var. *inappendiculata* (P3)
	KRT1105	*Euphorbia australis* var. *subtomentosa*
	JTC288	*Euphorbia vaccaria* var. *vaccaria*
	ZS5334	*Neptunia longipila* (P2)
	ZS5384	*Pentalepis trichodesmoides* subsp. *hispida* (P2)
	ZS5410	*Rhynchosia bungarensis* (P4)
	JTC314	*Solanum cleistogamum*
	KRT1233	*Tephrosia* sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)
	ZS5408	*Tephrosia supina*
	JTC402	*Themeda triandra*
	ZS5404	*Themeda triandra*
	KRT1197	*Themeda triandra*
	ZS5315	*Trianthema* sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)
ACC/11232/E	ZS5375	*Swainsona stenodonta*
	ZS5304	*Swainsona stenodonta*
ACC/11267/E	JTC334	*Bonamia pilbarensis*
	KRT1099	*Aristida burbidgeae*
	JTC296	*Terminalia circumalata*
	AP1405	*Terminalia circumalata*
	AP1483	*Terminalia circumalata*

One taxon recorded within the Survey Area, *Triumfetta propinqua,* represented an approximately 100 km eastern range extension. A range extension was defined here as a record being 100 km or more from the edge of its known distribution based on WAH (1998-) records.

5.2 Proportion of Flora Surveyed

A species accumulation plot based on accumulated species recorded versus sites surveyed within the Survey Area was used to provide an indication as to the level of adequacy of the survey effort. As the number of survey sites increases, and correspondingly the size of the area surveyed increases, there should be a diminishing number of new species recorded. At some point, the number of new species recorded becomes essentially asymptotic. When the number of new species being recorded for survey effort expended approaches this asymptotic value, the survey effort can be considered to be adequate.

The species accumulation curve (Figure 7), based on the species accumulation analysis of Colwell (2013) was used to evaluate the adequacy of sampling. Species by quadrat data was used in the species accumulation analysis. The asymptotic value was determined using Michaelis-Menten modelling. Based on this analysis, the incidence-based coverage estimator of species richness (Chao 2004) was calculated to be 347. Based on this value, and the total of 297 species recorded across the 177 survey quadrats, approximately 84.58% of the flora potentially present within the Survey Area has been recorded. The number of species used for the species accumulation analysis is lower than the number of species reported in the Survey Area because opportunistically collected taxa (i.e. those taxa which were recorded outside survey quadrats) were excluded from this analysis, as well as taxa recorded at relevès sites.

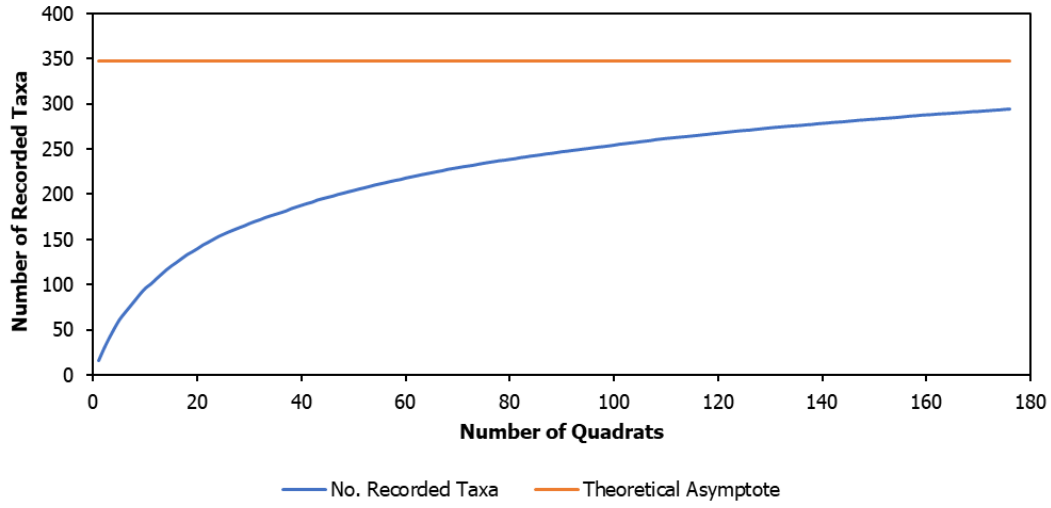


Figure 7: Average randomised species accumulation curve

5.3 Introduced (Exotic) Plant Species

Nine introduced (exotic) plant species were recorded within the Survey Area. The coordinates of all introduced taxa records are set out in Appendix F, and summarised in Table 10 below. All nine introduced taxa are permitted species pursuant to Section 11 of the BAM Act (Appendix A3). Where abundance data for introduced taxa was not recorded, records were assumed to represent one individual.

Table 10: Introduced (exotic) species recorded within the Survey Area

Family	Taxon	No. Records	Approx. No. Individuals
Amaranthaceae	**Aerva javanica*	1	2
Poaceae	**Cenchrus ciliaris*	18	135
Poaceae	**Cynodon dactylon*	1	1
Asteraceae	**Flaveria trinervia*	5	10
Malvaceae	**Malvastrum americanum*	5	113
Malvaceae	**Melochia pyramidata*	1	1
Poaceae	**Setaria verticillata*	7	16
Asteraceae	**Sonchus oleraceus*	4	4
Fabaceae	**Vachellia farnesiana*	4	18

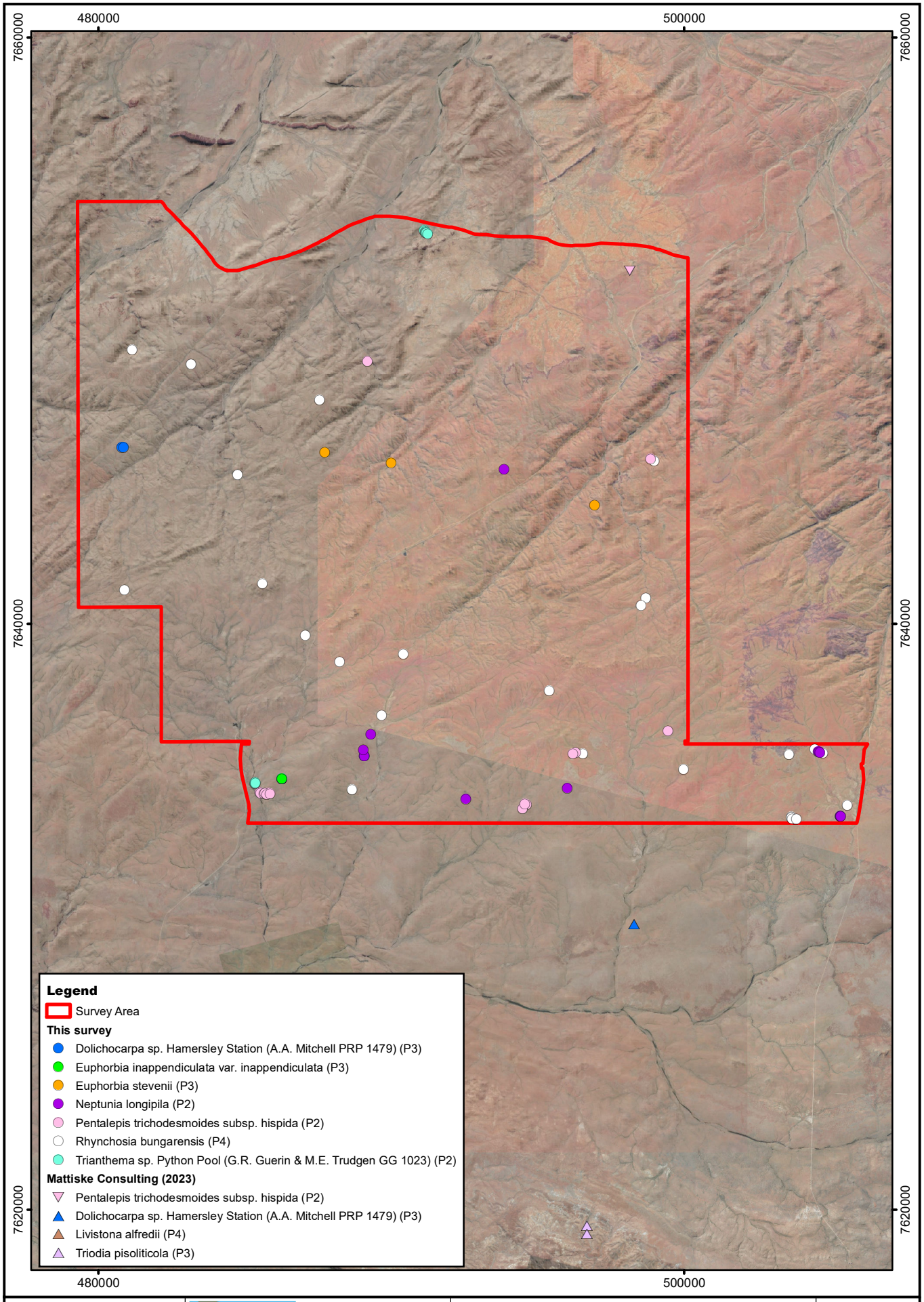
5.4 Conservation Significant Flora

No threatened flora, as listed in the *Biodiversity Conservation (Listing of Native Species) (Flora) Order 2022* (DBCA 2024a), and pursuant to section 179 of the *Environment Protection and Biodiversity Conservation Act 1999* and as listed by the DCCEEW (2024a), were recorded within the Survey Area.

Seven Priority taxa, as listed by the WAH (1998 -), were recorded within the Survey Area, all of which were known to occur in the area. The coordinates of all conservation significant flora records are set out in Appendix G, summarised in Table 11, and illustrated in Figure 8.

Table 11: Conservation significant taxa recorded within the Survey Area

Family	Taxon	No. Records	Abundance
Rubiaceae	*Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)	5	502
Euphorbiaceae	*Euphorbia inappendiculata* var. *inappendiculata* (P3)	2	5
Euphorbiaceae	*Euphorbia stevenii* (P3)	3	3
Fabaceae	*Neptunia longipila* (P2)	11	178
Asteraceae	*Pentalepis trichodesmoides* subsp. *hispida* (P2)	15	89
Fabaceae	*Rhynchosia bungarensis* (P4)	27	57
Aizoaceae	*Trianthema* sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)	9	146



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Scale: 1:175,000
MGA94 (Zone 50)

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Yindjibarndi Renewable Energy Project
Conservation Significant Flora

Figure: **8**

5.5 Vegetation Communities

Following *a priori* analysis of significant groups, vegetation communities were delineated using a combination of the SIMPROF and SIMPER results together with landform, soil data, and associated records of the survey quadrats and relevès. Where appropriate, outliers and small groupings were merged into broader vegetation units based on species composition and site descriptions. Based on the statistical analyses, 14 vegetation communities were defined and mapped across the Survey Area. The dendrogram representing the results of the cluster analysis, and the corresponding 14 vegetation communities is illustrated in Appendix H. Note that because relevè sites do not represent a consistent and defined area (ha) of vegetation sampled, relevés were excluded from the statistical analysis presented here. In addition to the statistical analysis, survey quadrat data, relevè data, and aerial photographic maps were used to delineate the boundaries of the vegetation communities. The vegetation mapping is presented in Figure 9. The proportion of each vegetation community mapped within the Survey Area is set out in Table 12. The species recorded within each vegetation community is set out in Appendix I. The vegetation communities are described in Appendix J and are summarised below.

Boulder fields

B1: *Terminalia circumalata, Brachychiton acuminatus* low sparse trees over *Flueggea virosa* subsp. *melanthesoides*, *Jasminum didymum* subsp. *lineare* mid isolated shrubs on rocky basalt hills.

Creeklines

C1: *Eucalyptus victrix* low open woodland over *Melaleuca linophylla, Acacia bivenosa, Acacia coriacea* subsp. *pendens* mid sparse shrubland over *Cyperus vaginatus, Stemodia grossa, Tephrosia rosea* var. *clementii* low sparse shrubland in ephemeral drainage channels.

C2: *Melaleuca argentea, Eucalyptus* ?*camaldulensis, Eucalyptus victrix* mid woodland over *Acacia ampliceps, Acacia coriacea* subsp. *pendens, Melaleuca linophylla* mid open shrubland over *Cyperus vaginatus, Typha domingensis, Schoenoplectus subulatus* tall open sedgeland surrounding pools with high water permanence.

C3: *Eucalyptus victrix, Eucalyptus camaldulensis* low woodland over *Acacia coriacea* subsp. *pendens, Melaleuca glomerata, Acacia* spp. (*A. bivenosa, A. pyrifolia* var. *pyrifolia, A. tumida*) mid sparse shrubland over *Cyperus vaginatus, Stemodia grossa, Eriachne benthamii* low sparse shrubland in drainage channels.

C4: *Eucalytpus victrix, Eucalytpus camaldulensis* low open woodland over *Acacia coriacea* subsp. *pendens, Flueggea virosa* subsp. *melanthesoides*, *Terminalia circumalata* mid sparse shrubland over *Cyperus vaginatus*, *Typha domingensis, Schoenoplectus subulatus* sedgeland around pools with high water permanence.

C5: *Terminalia circumalata* low sparse woodland over *Acacia coriacea* subsp. *pendens*, *Flueggea virosa* subsp. *melanthesoides*, *Cynanchum viminale* subsp. *australe* low sparse shrubland over *Cyperus vaginatus, Triodia wiseana, Cymbopogon ambiguus* low sparse grassland in narrow rocky sandstone gorges.

C6: *Eucalyptus victrix, Corymbia hamersleyana* low sparse woodland over *Acacia tumida* var. *pilbarensis, Acacia pyrifolia, Acacia bivenosa* low open shrubland over *Triodia wiseana*, *Cymbopogon ambiguus, Enneapogon lindleyanus* low sparse hummock grassland in minor drainage channels.

Grasslands

G1: *Acacia inaequilatera, Corymbia hamersleyana* low isolated trees over *Indigofera monophylla, Acacia pyrifolia, Acacia bivenosa* low sparse shrubland over *Triodia wiseana, Triodia epactia* low open hummock grassland on rocky sandstone hilltops and plains.

G2: *Aristida latifolia, Triodia wiseana* low sparse tussock grassland over *Rhynchosia minima, Streptoglossa bubakii* low isolated shrubs with diverse annual herbs and grasses on friable cracking clay on hilltops and flats.

Shrublands

S1: *Corymbia hamersleyana* low isolated trees over *Acacia ancistrocarpa, Acacia pyrifolia* var. *pyrifolia, Grevillea wickhamii* mid sparse shrubland over *Triodia epactia, Triodia wiseana* low sparse hummock grassland on stony plains and granite tor fields.

S2: *Acacia xiphophylla* tall open shrubland over *Senna artemisioides* subsp. *helmsii, Acacia coriacea* subsp. *pendens* low isolated shrubs over *Triodia wiseana* low isolated hummock grasses on orange-brown clay flats.

Woodlands

W1: *Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia bivenosa, Acacia* spp. (*A. ancistrocarpa, A. inaequilatera, A. maitlandii, A. pyrifolia*), *Senna glutinosa* subsp. *glutinosa* low isolated shrubs over *Triodia wiseana* low sparse hummock grassland on sandstone hilltops.

W2: *Corymbia hamersleyana* low open woodland over *Acacia bivenosa, Acacia pyrifolia, Acacia arida* low isolated shrubs over *Triodia wiseana, Themeda triandra* low sparse hummock grassland on rocky sandstone alluvium.

W3: *Eucalyptus leucophloia* subsp. *leucophloia, Corymbia hamersleyana* low open woodland over *Acacia ancistrocarpa, Hakea* spp. (*H. chordophylla, H. lorea*), *Acacia pyrifolia* low sparse shrubland over *Triodia wiseana, Triodia epactia* low open hummock grassland on orange rocky sandstone slopes.

Based on the SIMPER analysis, the B1 community was distinguished from all other vegetation types based on the largely absent ground cover/understorey taxa (i.e., hummock and tussock grasses), and was present in only small isolated patches in the northern parts of the Survey Area. The G1 vegetation community (the most dominant vegetation type) was distinguished based on the absence of all tree species excluding *Corymbia hamersleyana*, and the relatively high foliage cover of *Triodia wiseana*. The G1 vegetation community was recorded in close association with sandstone hills and rocky plains, and supported variable but sparse shrub strata. The G2 vegetation community was distinguished from all other vegetation types by its very low foliage cover, and was closely associated with distinctly friable and dark coloured soil on plains mostly in the south of the Survey Area, but also in small isolated areas on hill tops in the central parts of the Survey Area. The S1 vegetation community was distinguished based on the relatively higher abundance of *Triodia epactia* and *Acacia ancistrocarpa,* and was closely associated with granite torfields on lower and flatter terrain in the northern parts of the Survey Area. The S2 vegetation community was distinguished based on the presence of *Acacia xiphophylla,* and was restricted to one small area of outwash plain in the far southeast of the Survey Area. The W1 vegetation community was dominated by *Eucalyptus leucophloia* subsp. *leucophloia* and was closely associated with the tallest sandstone hills running east-west through the middle of the Survey Area. Understorey species in the W1 vegetation were somewhat similar to those recorded in the G1 vegetation, but was differentiated by the presence of *Eucalyptus leucophloia* subsp. *leucophloia*. The W2 vegetation was distinguished based on the relatively high foliage cover of *Corymbia hamersleyana* on loose gravelly alluvium in the south of the Survey Area. The W3 vegetation community represents an admixture of the W1 and W2 vegetation communities on low sandstone hills in the southwestern corner of the Survey Area. The W3 vegetation community was defined by having both *Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* in the overstorey, which was not observed anywhere else within the Survey Area.

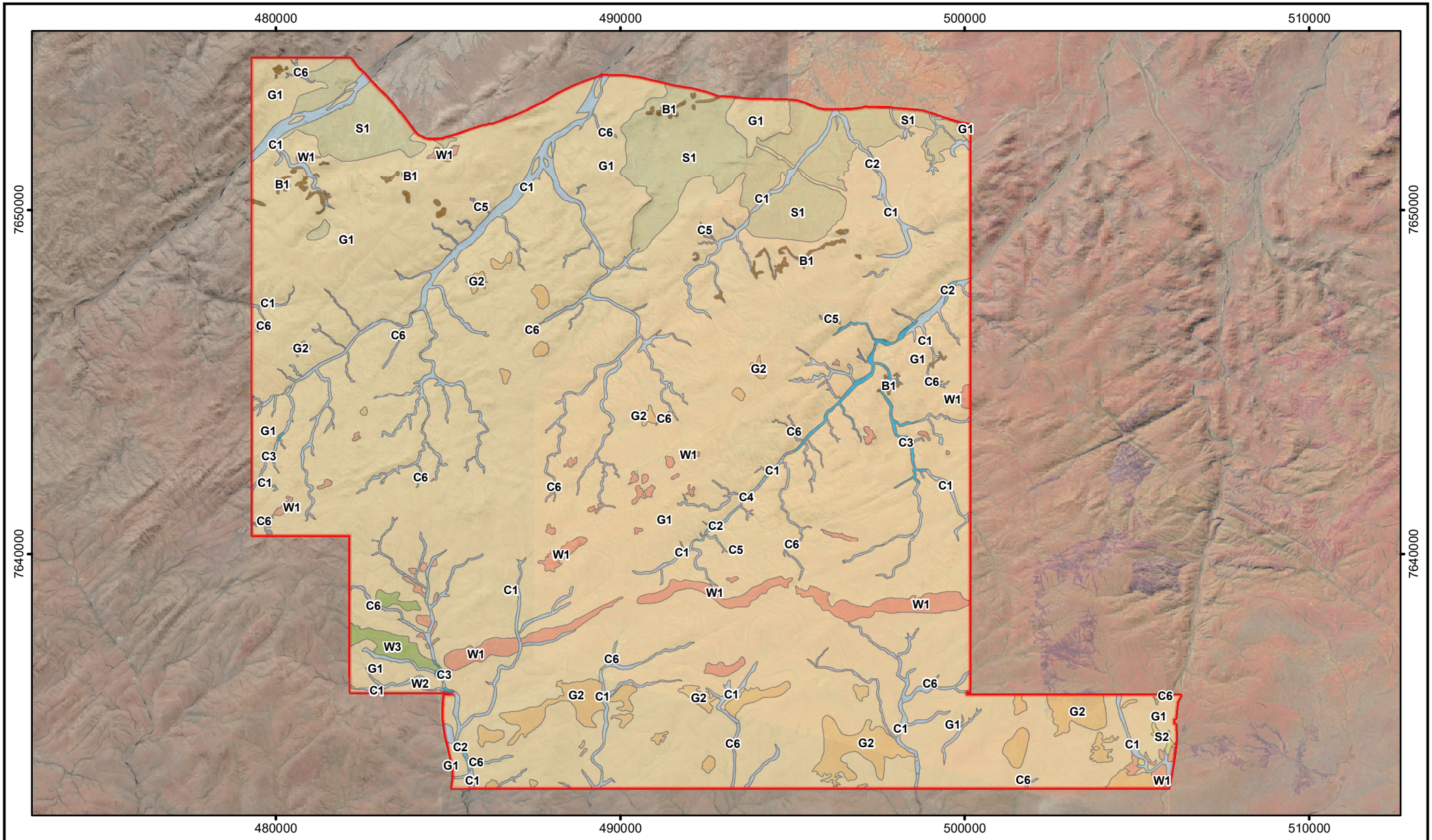
The creekline riparian vegetation communities were described based on the SIMPER results of the presence-absence transformed CLUSTER analysis (described in section 3.2 of this report), which included the releve sites. The C1 vegetation community was distinguished based on the dominance of *Eucalyptus victrix* in the overstorey and was associated with gravelly/gritty sand in creek beds in broader valleys. The C2 vegetation community was distinguished based on the presence of *Melaleuca argentea* in the

overstorey, and the presence of *Eucalyptus camaldulensis* in deeper gorges and around the Jinbi (Mattiske Consulting 2023). The C3 vegetation community was distinguished based on its mixture of both *Eucalyptus victrix* and *Eucalyptus camaldulensis* in the overstorey, and its diverse and dense understorey. The C4 vegetation community was similar to C3, but was distinguished from it by the presence of semi-permanent to permanent pools of water, and the associated water dependent vegetation (*Typha domingensis, Schoenoplectus subulatus*). The C4 vegetation community also differed from the C3 vegetation in that it supported several water-dependent annual taxa, namely *Stylidium fluminense, Potamogeton teperii* and *Lobelia arnhemiaca.* The C5 vegetation was distinguished based on the absence of any *Eucalyptus,* and the dominance of *Terminalia circumalata* in the overstorey and was closely associated with deep and narrow rocky gorges with little to no soil to support vegetation. Foliage cover in these areas therefore often very low. The C6 vegetation was distinguished based on the dominance of *Corymbia hamersleyana* in the overstorey and dense *Acacia tumida* in the mid-understorey. The C6 vegetation community was closely associated with the minor creeks/drainage channels dissecting the G1 vegetation across most of the Survey Area.

Table 12: Area coverage of each vegetation community delineated within the Survey Area

Vegetation Community	Area Mapped (ha)	Proportion of Survey Area
B1	169.85	0.42
C1	1,564.18	3.86
C2	35.14	0.09
C3	133.67	0.33
C4	10.85	0.03
C5	31.71	0.08
C6	464.10	1.14
G1	33,156.16	81.79
G2	1,145.08	2.82
S1	2,782.44	6.86
S2	20.52	0.05
W1	849.15	2.09
W2	6.08	0.01
W3	167.03	0.41
Totals	**40,535.96**	**100%**

Source:



Legend

Survey Area

Vegetation

B1 C1 C2 C3 C4 C5 C6 G1 G2 S1 S2 W1 W2 W3

N

0 2 4 km

Scale: 1:150,000
MGA94 (Zone 50)

CAD Ref: a2994F011_07

Date: January 2025 | Rev: A | A4

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Yindjibarndi Energy Corporation
Yindjibarndi Renewable Energy Project
Vegetation Mapping

Figure: **9**

5.6 Conservation Significant Ecological Communities

No TECs pursuant to sections 181 and 182 of the EPBC Act and listed by DCCEEW (2024b), or pursuant to Part 2 of the BC Act and as listed by DBCA (2024c) were recorded within the Survey Area.

Two PECs were recorded within the Survey Area, the Riparian Flora and Plant Communities PEC (P2), Cracking clays of the Chichester and Mungaroona Range PEC (P1) were identified within the Survey Area.

5.6.1. Riparian Flora and Plant Communities of Springs and River Pools with High Water Permanence of the Pilbara Region PEC (P2)

Within the Survey Area, the Riparian Flora and Plant Communities PEC (P2) was represented by the C2, C3 and C4 vegetation communities, and was restricted to the deepest gorges within the Survey Area where water permanence was highest. These vegetation communities were considered to represent this PEC based on the presence of isolated pools of water along these creeks, and the presence of the water dependent indicator species used in part to define this PEC by Lyons (2015): *Melaleuca argentea, Eucalyptus camaldulensis, Acacia ampliceps, Cyperus vaginatus, Typha domingensis* and *Schoenoplectus subulatus.* While some areas mapped as the Riparian Flora and Plant Communities PEC (P2) did not exhibit surface water pools at the time of the September 2024 survey, the vegetation present indicated the high water-permeance of these areas, particularly *Melaleuca argentea* which is entirely groundwater dependent.

In the northeast of the Survey Area (R012 and R014, Plate 1-2), Mattiske Consulting (2023) mapped an area of C2 vegetation around a permanent spring (Jinbi). Yindjibarndi elders informed botanists in the field that the pools observed within this C2 vegetation are permanent springs, and do not dry up over summer. In the centre and centre-east of the Survey Area, the C2, C3 and C4 vegetation communities were closely associated with the deeper gorges and valleys (Plate 3-4). Some smaller areas of C2 and C3 vegetation were mapped in the southwestern corner of the Survey Area (R024, R197, R232, Plates 5-6) which were not associated with deep gorges or rugged terrain, by may be associated with groundwater closer to the surface than it is elsewhere within the Survey Area. The permanent pool at site R024, mapped here as C3 vegetation, is likely an artificial drain constructed in association with the adjacent railway, or the result of alterations to local hydrology also associated with the railway (Plate 5).

Despite lacking the conservation significant species *Cladium procerum* (P2) and *Fimbristylis sieberiana* (P3), stipulated by DBCA (2024b) as being associated within the Riparian Flora and Plant Communities PEC (P3), the combination of high water permanence and the presence of several other indicator species, the C2, C3 and C4 vegetation communities are considered highly likely to represent the Riparian Flora and Plant Communities PEC (P3).

Plate 1: Relevè R014, representing the Riparian Flora and Plant Communities of Springs and River Pools with High Water Permanence of the Pilbara Region PEC (P2) (Mattiske Consulting 2023).

Plate 2: Relevè R012 representing the Riparian Flora and Plant Communities of Springs and River Pools with High Water Permanence of the Pilbara Region PEC (P2) (Mattiske Consulting 2023).

Plate 3: **Relevè R115 representing the Riparian Flora and Plant Communities of Springs and River Pools with High Water Permanence of the Pilbara Region PEC (P2).**

Plate 4: **Photograph near R078 facing southwest upstream, representing Riparian Flora and Plant Communities of Springs and River Pools with High Water Permanence of the Pilbara Region PEC (P2).**

Plate 5: Relevè R024 representing the Riparian Flora and Plant Communities of Springs and River Pools with High Water Permanence of the Pilbara Region PEC (P2) (Mattiske Consulting 2023).

Plate 6: Relevè R232 representing the Riparian Flora and Plant Communities of Springs and River Pools with High Water Permanence of the Pilbara Region PEC (P2).

5.6.2. Cracking clays of the Chichester and Mungaroona Range PEC (P1)

Within the Survey Area, the G2 vegetation community was considered highly likely to represent the Cracking clays of the Chichester and Mungaroona Range PEC (P1). The G2 vegetation community was characterised by its low foliage cover at the time of the September 2024 field survey, absence of overstorey and midstorey species, and uniquely friable gilgai soil with basalt rocks. The G2 vegetation was also readily identifiable from the helicopter and from satellite imagery by its distinctly darker and purple soil in comparison to the surrounding *Triodia* grasslands with brighter orange and rockier substrate. The G2 vegetation was primarily recorded along the southern edge of the Survey Area on open plains but was also recorded in isolated patches on top of larger hills in the centre of the Survey Area (Figure 9). Quadrat data collected from both of these landforms (plains/low hills and tops of large hills) was found to be statistically similar, and was therefore mapped as representing the same G2 vegetation community (Appendix H). Alive vegetation cover at the time of the September 2024 field survey was extremely low (Plates 7-8), since the majority of the annual taxa this community supports had senesced for the dry-season. Despite this, most annuals present could be identified to at least genus level. In terms of conservation significant taxa, *Neptunia longipila* (P2) and *Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3) and *Euphorbia inappendiculata* var. *inappendiculata* (P3) were all closely associated with the G2 vegetation community. *Euphorbia stevenii* (P3) and *Rhynchosia bungarensis* (P4) were recorded within the G2 vegetation community, but were also recorded growing in other vegetation communities. These characteristics (cracking clay soil, low dry-season foliage cover, diverse annual taxa, and poorly known taxa) are in line with those used by DBCA (2024c) to define the Cracking clays of the Chichester and Mungaroona Range PEC (P1).

Plate 7: Quadrat Q234 representing the Cracking clays of the Chichester and Mungaroona Range PEC (P1)

Plate 8: Quadrat Q079 representing the Cracking clays of the Chichester and Mungaroona Range PEC (P1)

5.7 Vegetation Condition

The condition of the vegetation within the Survey Area was largely Excellent, with only isolated weed plants, and minor signs of cattle grazing. The G2 vegetation along the southern boundary of the Survey Area appeared to have been grazed before many of the annual taxa had senesced prior to the survey, where some cattle scats were observed. The extent of grazing in this part of the G2 community will become more apparent during the post wet season survey in 2025. These areas of the G2 vegetation were classified as Very Good. The S2 vegetation in the southeastern corner of the Survey Area had been heavily grazed at the time of the October 2023 survey (Mattiske Consulting 2023), where understorey taxa were sparse and cattle scats were abundant. For these reasons the S2 vegetation condition was classified as Poor.

6. DISCUSSION

Mattiske Consulting was engaged by the YEC via Coterra Environment to undertake a desktop and detailed flora and vegetation survey of the Yindjibarndi Renewable Energy Project Survey Area. The September 2024 detailed flora and vegetation survey reported here represents the post-dry season component of a two-phase survey. The post wet-season component of the detailed flora and vegetation survey is scheduled for early 2025. The post wet-season survey scheduled for early 2025 aims to build on the results presented here and capture a higher proportion of the annual taxa present within the Survey Area. The 2025 post wet-season survey also aims to increase the sampling intensity throughout the Survey Area, particularly in the areas burnt in the December 2023 wildfire.

6.1 Flora

A total of 297 vascular plant taxa which are representative of 143 genera and 49 families were recorded during the 2024 field survey. When combining the 2024 field survey data with that collected by Mattiske Consulting (2023) within the Survey Area, a total of 342 vascular plant taxa representative of 52 families and 156 genera have been recorded within the Survey Area. From this combined dataset, the most commonly recorded taxa were representative of the Fabaceae (64 taxa), Poaceae (57 taxa) and Malvaceae (32 taxa) families. It is expected that the number of taxa recorded within the Survey Area will increase after the post wet-season survey scheduled for early 2025. The suite of annual taxa present and identifiable during the 2025 post-wet season survey is expected to be larger than was present during this post-dry season survey.

The plant taxa recorded during the survey were largely consistent with those reported in the desktop assessment, and were known to occur in the region. One taxon recorded within the Survey Area, *Triumfetta propinqua,* represented an approximately 100 km eastern extension to its known range. Nine introduced (exotic) taxa were recorded within the Survey Area (Table 10), all of which are permitted species pursuant to section 11 of the BAM Act. While no Declared pest taxa were recorded within the Survey Area, weed management practices, such as vehicle hygiene inspections and equipment washdowns, should still be implemented to prevent the spread of permitted weed species and the introduction of new weed species from outside of the Survey Area. Further, the records of introduced taxa made here in the dry season (Table 10), likely represent the minimum local extent of these taxa. It would be expected that during the 2025 post wet-season survey that the distribution of introduced taxa throughout the Survey Area would be larger, and annual introduced taxa would be more likely to be recorded.

6.2 Conservation Significant Flora

No threatened flora, as listed in the Biodiversity Conservation (Listing of Native Species) (Flora) Order 2022 (DBCA 2024b), and pursuant to section 179 of the *Environment Protection and Biodiversity Conservation Act 1999* and as listed by the DCCEEW (2024a), were recorded within the Survey Area.

Seven priority species as listed by the DBCA (WAH 1998 -) were recorded within the Survey Area, all of which were previously known to occur in the region. The significance of these seven conservation significant taxa is discussed below:

Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)

Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3) (Plate 9) is a spreading annual herb 0.05 – 0.1 m high, occurring on open clay flats (WAH 1998-). *Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3) was recorded at 5 locations representing 502 individuals within the Survey Area (Table 11). Regionally, this taxon is known from 38 records across a 400 x 300 km area of the Pilbara IBRA region. This taxon is also known to occur within Karijini and Millstream Chichester National Parks. Within the Survey Area, this taxon was restricted to the G2 vegetation community, which represents the Cracking clay of the Chichester and Mungaroona Range PEC (P1). Given the annual lifeform of this taxon, it is

expected that *Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3) will be more abundant during the post wet-season survey scheduled for early 2025.

Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3) is superficially similar to *Dolichocarpa crouchiana* in appearance, which was widespread throughout the Survey Area. *Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3) can be distinguished from *D. crouchiana* by its relatively wider hypanthium/fruit (i.e., lower length to width ratio) and lack of erose sepal midrib. *Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3) also has a smaller and more spreading habit than *D. crouchiana* (M. Hislop pers. comm 2024). It is for this reason that *Dolichocarpa* spp. were collected widely.

Plate 9: *Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3) (Photograph: K. Tribbeck).

Euphorbia inappendiculata var. *inappendiculata* (P3)

Euphorbia inappendiculata var. *inappendiculata* (P3) is an erect to spreading annual herb to 0.15 m high, occurring on clayey soils and in creek beds (WAH 1998-). *Euphorbia inappendiculata* var. *inappendiculata* (P3) was recorded at 2 locations representing 5 individuals within the Survey Area (Table 11). Regionally, this taxon is known from 14 records across a 600 x 500 km area of the Pilbara IBRA region, with one record in the Gascoyne IBRA region. This taxon is also known to occur within the Barlee Range Nature Reserve. Within the Survey Area, this taxon was restricted to the G2 vegetation community, which represents the Cracking clay of the Chichester and Mungaroona Range PEC (P1). Given the annual lifeform of this taxon, it is expected that *Euphorbia inappendiculata* var. *inappendiculata* (P3) will be more abundant during the post wet-season survey scheduled for early 2025.

Euphorbia stevenii (P3)

Euphorbia stevenii (P3) is a somewhat succulent perennial herb, 0.1-0.5 m high, occurring in clay and sandy soils (WAH 1998-). *Euphorbia stevenii* (P3) was recorded at 3 locations representing 3 individuals within the Survey Area (Table 11). Regionally, this taxon is known from 17 records across a 300 x 400 km area of the Pilbara IBRA region, with a disjunct population near Kununurra in the Victoria Bonaparte IBRA region. This taxon is also known to occur within Karijini National Park. Within the Survey Area, this taxon was recorded growing in the G1, G2 and C1 vegetation communities.

Neptunia longipila (P2)

Neptunia longipila (P2) (Plate 10) is a prostrate perennial shrub growing in cracking clays (WAH 1998-, Bean 2022). *Neptunia longipila* (P2) was recorded at 11 locations representing 177 individuals within the Survey Area (Table 11). Regionally, this taxon is known from 16 records across a 350 x 200 km area of the Pilbara IBRA region. This taxon is also known to occur within Millstream Chichester National Park. Within the Survey Area, this taxon was recorded growing exclusively within the G2 vegetation community, which represents the Cracking clay of the Chichester and Mungaroona Range PEC (P1). Given the small

size of this taxon, it is expected that it will be more easily detected during the post wet-season survey scheduled for early 2025, when it is expected to be in better condition.

Plate 10: ***Neptunia longipila*** **(P2)** (Photograph: K. Tribbeck).

Pentalepis trichodesmoides **subsp.** ***hispida*** **(P2) (Barraburratha)**

Pentalepis trichodesmoides subsp. *hispida* (P2) (Plate 11a-b) is a perennial shrub 0.6-1 m high, growing in *Triodia* grasslands on summits and slopes of low hills, on basaltic soils (WAH 1998-, Orchard and Cross 2012). *Neptunia longipila* (P2) was recorded at 15 locations representing 89 individuals within the Survey Area (Table 11), and had previously been recorded within the Survey Area by Mattiske Consulting (2023). Regionally, this taxon is known from 15 records across a 300 x 250 km area of the Pilbara IBRA region. This taxon is also known to occur within Karijini and Millstream Chichester National Parks. Within the Survey Area, this taxon was recorded growing in close association with the G1 vegetation community, but was most abundant in the southern parts of the Survey Area where the terrain was much less rugged, and the sandstone hills were lower.

Plate 11a: ***Pentalepis trichodesmoides*** **subsp.** ***hispida*** **(P2) habit** (Photograph: Z. Sims)

Plate 11b: *Pentalepis trichodesmoides* subsp. *hispida* (P2) capitulum (Photograph: K. Tribbeck)

Rhynchosia bungarensis (P4)

Rhynchosia bungarensis (P4) is a prostrate perennial shrub to 0.5 m high, growing in pebbly, shingly coarse sand amongst boulders (WAH 1998-). *Rhynchosia bungarensis* (P4) was recorded at 27 locations representing 42 individuals within the Survey Area (Table 11). Regionally, this taxon is known from 108 records across the Pilbara IBRA region, with outlier records in the Carnarvon, Gascoyne and Tanami IBRA regions. This taxon is also known to occur within Karijini and Millstream Chichester National Parks, and in Barlee Range Nature Reserve. Within the Survey Area, this taxon was recorded growing in various vegetation communities, and did not appear to show an affinity for any particular vegetation type. *Rhynchosia bungarensis* (P4) is somewhat difficult to distinguish from the much more widespread *Rhynchosia minima* which was also recorded within the Survey Area. *Rhynchosia bungarensis* (P4) is distinguished from *R. minima* by its more glutinous habit and longer spreading branchlet hairs. This difference can be difficult to notice in the field, however, and represents a potential source of confusion and mis-identification. For this reason, *Rhynchosia* was collected widely throughout the Survey Area and representative specimens were sent to the WAH for confirmation by specialist taxonomists.

Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)

Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2) (Plate 12a-b) is a prostrate annual herb 0.3 m high, growing on rocky slopes and plains (WAH 1998-). *Trianthema* sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2) was recorded at 9 locations representing 146 individuals within the Survey Area (Table 11). Regionally, this taxon is known from 9 records across a 100 x 100 km area of the Pilbara IBRA region. This taxon is also known to occur within Millstream Chichester National Park. Within the Survey Area, this taxon was recorded growing in the S1 and G1 vegetation communities on lower slopes and flats. The northern population of *Trianthema* sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2) was recorded growing in isolated patches of unburnt vegetation in an otherwise recently burnt (December 2023) landscape. The records made in the southwest corner of the Survey Area were also mature vegetation, suggesting that this taxon has an affinity for more mature vegetation. Given the annual lifeform of this taxon, it is expected that *Trianthema* sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2) will be more abundant during the post wet-season survey scheduled for early 2025.

Plate 12a: ***Trianthema*** **sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2) flowers.** (Photograph: Z. Sims).

Plate 12b: ***Trianthema*** **sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2) habit.** (Photograph: Z. Sims).

6.3 Other Conservation Significant Taxa

Ten conservation significant taxa identified in the desktop assessment as having the potential to occur within the Survey Area were not recorded during the field survey (Table 5):

- *Livistona alfredii* (P4);
- *Ipomoea racemigera* (P2);
- *Cladium procerum* (P2);
- *Swainsona thompsoniana* (P3);
- *Tephrosia lithosperma* (P1);
- *Vigna triodiophila* (P3);
- *Owenia acidula* (P3);
- *Paspalidium retiglume* (P2);
- *Triodia basitricha* (P3); and
- *Solanum albostellatum* (P3).

Of these 10 conservation significant taxa, four are annual taxa (*Ipomoea racemigera* (P2), *Swainsona thompsoniana* (P3), *Vigna triodiophila* (P3) and *Paspalidium retiglume* (P2)), and are therefore less likely to have been detectable at the time of the post-dry season September 2024 survey. If these four annual conservation significant taxa are present within the Survey Area, they are more likely to be detectable during the post wet season survey scheduled for early 2025. *Ipomoea racemigera* (P2) is known to occur in creeks within Millstream Chichester National Park (WAH 1998-), and may be present within the C1-6 vegetation communities. *Swainsona thompsoniana* (P3) is known to occur on heavy and cracking clay soils (Davis and Hurter 2013) which are present within the G2 vegetation community. *Vigna triodiophila* (P3) is known to occur in basalt rockpiles (Holland and Butcher 2016) which are present within the B1 vegetation community. *Paspalidium retiglume* (P2) is known to occur on clay and cracking clay soils (WAH 1998-) which are present within the G2 vegetation community.

Livistona alfredii (P4) and *Cladium procerum* (P2) are highly water-dependent species (Lyons 2015), and suitable habitat with sufficient groundwater flows would be obvious to botanists in the field. *Livistona alfredii* (P4) and *Cladium procerum* (P2) are also very distinct taxa, and are unlikely to be confused with any other taxa, or overlooked during the field survey. For these reasons *Livistona alfredii* (P4) and *Cladium procerum* (P2) are unlikely to be present within the Survey Area.

Given that the remaining four taxa assessed as having the potential to occur within the Survey Area (*Tephrosia lithosperma* (P1), *Owenia acidula* (P3), *Triodia basitricha* (P3) and *Solanum albostellatum* (P3)) are perennial taxa and were not recorded during the September 2024 field survey, the likelihood that they occur within the Survey Area has been substantially reduced, although suitable habitat for these taxa may still exist. Of these four taxa, *Tephrosia lithosperma* (P1) is the most cryptic and has the highest conservation category. *Tephrosia lithosperma* (P1) is superficially similar in appearance to *T. supina* but can be distinguished by the combination of its longer, more slender, distinctly inclined to recurved stipules; generally smaller leaflets with a more prominent mucro; slender, elongate calyx lobes that are *c.* 2–3 × longer than the tube; glabrous staminal tube and variably hairy upper filament; narrower pods with a more strongly upturned apex and a (generally) longer beak; and laterally compressed, reniform to transversely oblong seeds, which are finely rugose and uniformly red-brown or flecked with dark brown or black (Butcher and Cowie 2021). These taxonomic differences may be difficult to distinguish in the field and present a potential source of misidentification. For this reason, a conservative approach was taken and all specimens suspected of potentially representing *Tephrosia lithosperma* (P1) were collected and their abundances recorded. Representative specimens were then sent for identification by specialist taxonomists at the WAH, where they were identified as either *T. supina* or *T.* sp. NW Eremaean (S. van Leeuwen et al. PBS 0356). Further, *Tephrosia lithosperma* (P1) is known from just one record in Western Australia at Magazine Hill, approximately 50 km east of the Survey Area in *Eucalyptus leucophloia* woodland over *Acacia bivenosa* over *Triodia brizoides* on light brown pebbly, gravelly loam on a low rise. Based on this limited Western Australia habitat data, suitable habitat for *Tephrosia lithosperma* (P1) may be present within the W1 and/or W3 vegetation communities. Given the intensity of the survey work presented here, however, and the more widespread distribution of this taxon through central Australia (Butcher and Cowie

2021), the likelihood of *Tephrosia lithosperma* (P1) occurring within the Survey Area is considered to be low.

6.4 Impacts of Wildfire

In December 2023, approximately 10 months prior to the field survey, approximately one third of the Survey Area was burnt by wildfire. The vegetation regrowth present within the first year after fire often comprises a different suite of species, with much different vegetation structure, to those present in mature vegetation. At the time of the September 2024 field survey, the region had received 270 mm of rainfall since the December 2023 fire, approximately 74% of the long-term average for the corresponding period (Figure 2), and vegetation regrowth was small. The post wet-season component of this survey, scheduled for early 2025, will resample a subset of the quadrats established within the vegetation burnt in December 2023, and increase the sampling intensity by establishing more quadrats in these areas. This future work aims to mitigate the constraint imposed on this survey by this wildfire by collecting more data on the distribution and abundance of conservation significant taxa in these areas.

6.5 Vegetation Communities

Vegetation mapping based on data from 177 quadrats and 65 relevés resulted in the delineation of 14 vegetation communities within the Survey Area. Broadly, these 14 vegetation communities represented one basalt boulder field community, six riparian creekline communities, two grasslands, two shrublands, and three woodlands. All vegetation communities mapped within the Survey Area were consistent with those described and mapped during historical surveys of the region (Beard 1975, 1990, Lyons 2015, Mattiske Consulting 2023).

The most dominant vegetation type mapped within the Survey Area was the G1 vegetation:

> *Acacia inaequilatera, Corymbia hamersleyana* low isolated trees over *Indigofera monophylla, Acacia pyrifolia, Acacia bivenosa* low sparse shrubland over *Triodia wiseana, Triodia epactia* low open hummock grassland on rocky sandstone hilltops and plains.

The G1 vegetation community was somewhat variable from north to south throughout the Survey Area. On sandstone hilltops and plains in the north, where the hills were highest and the terrain most rugged, areas mapped as G1 had overstoreys most commonly dominated by *Corymbia hamersleyana.* In the south, however, where the terrain was less rugged and generally flatter, *Acacia inaequilatera* dominated overstoreys were more common. These differences were not reliably distinguishable from the satellite imagery, and some areas had both *Corymbia hamersleyana* and *Acacia inaequilatera*. It was for this reason that these northern and southern areas (*Corymbia hamersleyana* dominated versus *Acacia inaequilatera* dominated) were not differentiated here. The S2, W2 and W3 vegetation communities, which all occupied relatively small portions of the Survey Area (Table 12), are widespread throughout the region (WAH1998-, Beard 1990) and do not represent restricted vegetation types or ecological communities. Further, no conservation significant taxa were closely associated with any of these three vegetation communities.

Creekline riparian vegetation was differentiated primarily based on the dominant overstorey species, and the presence or absence of water-dependent understorey species such as *Typha domingensis* and *Schoenoplectus subulatus.* These riparian vegetation communities were closely associated with their position in the landscape and the subsequent water availability. High in the landscape in shallow drainage lines, *Eucalyptus victrix* and *Corymbia hamersleyana* over thick *Acacia tumida* dominated the vegetation where water was less available. Lower in the landscape, the C1 vegetation was the most widespread creekline vegetation mapped within the Survey Area, where creeks were wider and in deeper valleys. The C1 vegetation likely supports short-lived ephemeral pools of water after the wet-season, where water dependent species may grow for short periods of the year. The soil and landscape in areas mapped as C1 are less likely to support these pools of water for long periods of times, and consequently the dominant plant taxa are adapted to this (i.e., *Eucalyptus victrix, Melaleuca linophylla, Cyperus vaginatus*). Even

lower in the landscape, the C3 vegetation supported more water dependent taxa around pools with high water permanence (i.e., *Eucalyptus camaldulensis, Stemodia grossa*), and was recorded in close association with deeper valleys and wide gorges. Small areas of C2 vegetation were recorded across the Survey Area supporting the entirely groundwater dependent taxon *Melaleuca argentea*, with several other water dependent taxa (i.e., *Eucalyptus camaldulensis, Acacia ampliceps, Typha domingensis, Schoenoplectus subulatus, Eleocharis geniculata*). These areas of C2 vegetation are likely to correspond to areas where the groundwater is closer to the surface, and water would pool for longer periods after rain. Several water dependent annual taxa were also recorded growing in close association with pools with high water permanence in the C2 vegetation community, namely *Stylidium fluminense, Potamogeton teperii, Lobelia arnhemiaca* and *Vallisneria annua.* Pools with high water permanence in the C2 vegetation communities likely serve as important refugia for these taxa during the dry season whilst ephemeral pools are dry. Several taxa which are more typical of wetter climates (i.e., the Kimberley region) were also recorded growing in close association with the C2 vegetation community, but not forming a dominant structural component of the vegetation, namely *Kirganelia baccata, Ficus aculeata* var. *indecora* and *Dicliptera armata.* These taxa are likely dependent on the more readily available ground water and higher soil moisture content throughout the year, associated with/supporting the C2 vegetation.

Vegetation was largely in Excellent (Trudgen 1988) throughout the Survey Area, with only small areas exhibiting signs of grazing with isolated introduced (weed) plants. Although not surveyed during this September 2024 field survey, it would be expected that populations of introduced taxa would be more abundant along the Rio Tinto rail access track bisecting the Survey Area, than in the remote and undisturbed areas surveyed here. The area directly cleared for the Rio Tinto rail access road is clearly Completely Degraded, but the native vegetation immediately surrounding this infrastructure is likely in Very Good or worse condition due to the impacts associated with weeds and dust.

6.6 Conservation Significant Ecological Communities

No TECs pursuant to sections 181 and 182 of the EPBC Act and listed by DCCEEW (2024b), or pursuant to Part 2 of the BC Act and as listed by DBCA (2024c) were recorded within the Survey Area. Two PECs as listed by DBCA (2024a) were recorded within the Survey Area, and are discussed below.

6.6.1. Riparian Flora and Plant Communities of Springs and River Pools with High Water Permanence of the Pilbara Region PEC (P2)

Within the Survey Area, the C2, C3 and C4 vegetation communities were classified as the Riparian Flora and Plant Communities PEC (P3) based the presence of some or all of the indicator species set out by Lyons (2015): *Melaleuca argentea, Eucalyptus camaldulensis, Acacia ampliceps, Cyperus vaginatus, Typha domingensis* and *Schoenoplectus subulatus*. These types of vegetation are known to occur throughout the Pilbara but in small restricted pockets (Lyons 2015). Ideally, quadrat data collected from the Survey Area would be statistically compared to reference data defining the PEC. The small and narrow size of the C2, C3 and C4 vegetation within the Survey Area, however, restricted botanists' ability to establish 50 x 50 m quadrats without intersecting ecotones or adjacent vegetation types. A subjective comparison of the species recorded from relevé sites with indicator species highlighted by Lyons (2015) as representing the Riparian Flora and Plant Communities PEC (P3) was instead undertaken here. These indicator species are water-dependent, and found primarily (and sometimes exclusively) around permanent pools. While the C2, C3 and C4 vegetation were amongst the most restricted vegetation types recorded within the Survey Area (collectively representing 0.45% of the Survey Area), their locations within the landscape are unlikely to be suitable areas for infrastructure (mostly in deep valleys and gorges). Further, these areas of dense, water dependent vegetation and the associated water are often important cultural sites for the Yindjibarndi people (L. Coppin pers. comm., Greening Australia 2016). The relatively small impact footprint associated with wind and solar energy infrastructure (when compared to open cut mining, for example), is also unlikely to impact the hydrology of the area, and hence the groundwater dependent vegetation.

6.6.2. Cracking clays of the Chichester and Mungaroona Range PEC (P1)

The G2 vegetation community mapped within the Survey Area was considered likely to represent the Cracking clays of the Chichester and Mungaroona Range PEC (P1) based on a qualitative comparison to the description supplied by DBCA (2024c):

> This shrubless plain of stony gibber community occurs on the tablelands with very little vegetative cover during the dry season, however during the wet a suite of ephemerals/annuals and short-lived perennials emerge, many of which are poorly known and range-end taxa.

Vegetative cover during the September 2024 survey (dry season) was very low in the G2 vegetation community (Figures 7-8). Three poorly known (conservation significant) taxa were recorded growing in close association with the G2 vegetation community, *Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3), *Euphorbia inappendiculata* var. *inappendiculata* (P3) and *Neptunia longipila* (P2). In the south and southeastern portions of the Survey Area, the G2 vegetation community roughly corresponded with the predictive PEC polygon mapped and supplied by DBCA, although the G2 community extends further west and north than mapped by DBCA. While no reference quadrat data exists to define this PEC, and hence enable a statistical comparison with the quadrats established within the Survey Area, these qualitative indicators suggest that the G2 vegetation community is likely to represent the Cracking clays of the Chichester and Mungaroona Range PEC (P1).

The post wet-season survey scheduled for early 2025 is likely to record a much higher diversity and abundance of annual taxa, including conservation significant taxa, within the G2 vegetation community than was recorded during this September 2024 field survey.

6.6.3. Other Priority Ecological Communities

Six other PECs (in addition to the Riparian Flora and Plant Communities PEC (P3) and Cracking clays of the Chichester and Mungaroona Range PEC (P1)) were identified during the desktop assessment of the Survey Area. These six other PECs were:

1. Annual *Sorghum* grassland on self-mulching clays with a moderate-dense overlay of rocks PEC (P1);
2. Mitchell grass plains (*Astrebla* spp.) on gilgai PEC (P3);
3. Mitchell grass and Roebourne Plain grass (*Eragrostis xerophila*) plain on gilgai PEC (P3);
4. Horseflat Land System of the Roebourne Plains PEC (P3);
5. Kanjenjie Land System PEC (P3); and
6. Kumina Land System PEC (P3).

Whilst these six PECs were identified in the desktop assessment within the wider region, the likelihood of their occurrence within the Survey Area was considered low. No species of *Sorghum* were recorded within the Survey Area, nor were any self-mulching clays, making it unlikely for the Annual *Sorghum* grassland on self-mulching clays PEC (P1) to occur within the Survey Area. One quadrat (Q244) in the far southeast of the Survey Area contained *Astrebla elymoides* and *A. pectinata* on gilgai. *Astrebla* spp. in this quadrat contributed just 4.01% of the alive foliage cover, and was still statistically similar to quadrats described as G2 vegetation. For this reason, Q244 was mapped as G2 vegetation, and is not considered to represent the Mitchell grass plains (*Astrebla* spp.) on gilgai PEC (P3). *Eragrostis xerophylla* was not recorded anywhere within the Survey Area, making it unlikely that the Mitchell grass and Roebourne Plain grass (*Eragrostis xerophila*) plain on gilgai PEC (P3) occurs within the Survey Area. Similarly, the Horseflat, Kanjenjie and Kumina Land Systems do not intersect the Survey Area (van Vreeswyk *et al.* 2004, Table 1), and do not correspond with any of the vegetation communities mapped here. For these reasons, it is unlikely that the PECs corresponding with these three land systems occur within the Survey Area.

7. CONCLUSIONS

Based on the results of this field survey, both the range of flora taxa recorded and the vegetation types defined were consistent with the information recorded in the desktop assessment. The majority of the Survey Area consists of *Triodia* grasslands with emergent *Corymbia* and *Acacia* shrublands on either granitic or sandstone derived substrates. These areas were intersected by ephemeral creeks supporting *Eucalyptus victrix* and *Corymbia hamersleyana* low open woodlands over *Acacia tumida* higher in the landscape, and *Eucalyptus camaldulensis* and *E. victrix* lower in the landscape over variable *Melaleuca* and *Acacia* shrublands lower in the landscape. Small areas of *Melaleuca argentea* woodlands were recorded throughout the Survey Area, and represent Groundwater Dependent Ecosystems. These larger creeks lower in the landscape were considered likely to represent the Riparian Flora and Plant Communities PEC (P2) based on the presence of several indicator species, namely *Melaleuca argentea, Eucalyptus camaldulensis* subsp. *refulgens, Acacia ampliceps, Typha domingensis*, *Cyperus vaginatus* and *Schoenoplectus subulatus*. Along the southern boundary of the Survey Area, and on isolated hills in the centre and centre-north, *Aristida latifolia* low sparse shrublands with very low foliage cover were recorded on uniquely friable clay-loam soil. These areas of vegetation were considered likely to represent the Cracking clays of the Chichester and Mungaroona Range PEC (P1).

Eight priority species were recorded within the Survey Area, all of which were identified in the desktop assessment and were previously known to occur in the region. Several conservation significant taxa identified in the desktop assessment, some of which are annual taxa, were not recorded during this field survey. This may be because of the post dry season timing of this survey.

The post wet season component of this survey, scheduled for early 2025, aims to supplement the dry season data presented here and clarify the distribution and abundance of all conservation significant taxa throughout the Survey Area, but particularly those with an annual life form. Further, the post wet season survey aims to more thoroughly sample and describe the vegetation in the northern and north-western portions of the Survey Area which had been burnt approximately 10 months prior to the September 2024 survey. Specifically, the post wet-season survey will:

3. Reassess a subset of the quadrats established within the burnt areas to confirm mature vegetation structure and composition; and
4. Sample annual taxa which were potentially absent during this 2024 dry season survey.

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9. PERSONNEL

The following Mattiske Consulting personnel were involved in this project:

Name	Position	Involvement	Flora Collection Permit Number
Dr E. M. Mattiske	Managing Director & Principal Ecologist	planning, management and report review	N/A
Zac Sims	Senior Botanist	Planning, fieldwork, plant identifications, data analysis, reporting	FB62000025-6; TFL2324-0160
Kayla Tribbeck	Experienced Botanist	Planning, fieldwork, report review	FB62000467-3
Ashley Pereira	Experienced Botanist	Fieldwork	FB62000145-6
Jessica Crane	Botanist	Fieldwork	FB62000671

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APPENDIX A1: THREATENED AND PRIORITY FLORA DEFINITIONS

Under section 179 of the *Environment Protection and Biodiversity Conservation Act 1999* (*EPBC Act*), **threatened flora** are categorised as extinct, extinct in the wild, critically endangered, endangered, vulnerable and conservation dependent (Table A1.1).

Table A1.1 Federal definition of threatened flora species
Note: Adapted from section 179 of the *EPBC Act*.

CODE	CATEGORY	DEFINITION
Ex	**Extinct**	Species which at a particular time if, at that time, there is no reasonable doubt that the last member of the species has died.
ExW	**Extinct in the Wild**	Species which is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.
CE	**Critically Endangered**	Species which at a particular time if, at that time, it is facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria.
E	**Endangered**	Species which is not critically endangered and it is facing a very high risk of extinction in the wild in the immediate or near future, as determined in accordance with the prescribed criteria.
V	**Vulnerable**	Species which is not critically endangered or endangered and is facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria.
CD	**Conservation Dependent**	Species which at a particular time if, at that time, the species is the focus of a specific conservation program, the cessation of which would result in the species becoming vulnerable, endangered or critically endangered within a period of 5 years.

The *Biodiversity Conservation Act 2016 - WA* (*BC Act*) provides for (amongst other things) the protection of flora that is facing an extremely high risk of extinction in the wild in the immediate, near or medium-term future in Western Australia under Part 10 (Division 2).

Threatened flora are listed in the *Biodiversity Conservation (Listing of Native Species) (Flora) Order 2023*; Department of Biodiversity, Conservation and Attractions (DBCA) (DBCA 2024b), and are categorised under Division 1 (threatened species – critically endangered), Division 2 (threatened species - endangered), and Division 3 (threatened species – vulnerable)**.** A flora species is defined as **threatened flora** if it is facing an extremely high risk of extinction in the wild in the immediate, near or medium-term future, pursuant to sections 20, 21 and 22 of the *BC Act*. Threatened species are categorised as critically endangered, endangered, and vulnerable (Table A1.2).

Table A1.2 State definition of threatened flora species
Note: Adapted from *BC Act*

CODE	CATEGORY	DEFINITION
CR	**Critically endangered**	Species considered to be facing an extremely high risk of becoming extinct in the wild (listed under Schedule 1, Division 1 of the *Biodiversity Conservation (Listing of Native Species) (Flora) Order 2023*).
EN	**Endangered**	Species considered to be facing a very high risk of becoming extinct in the wild (listed under Schedule 1 Division 2 of the *Biodiversity Conservation (Listing of Native Species) (Flora) Order 2023*).
VU	**Vulnerable**	Species considered to be facing a high risk of becoming extinct in the wild (listed under Schedule 1 Division 3 of the *Biodiversity Conservation (Listing of Native Species) (Flora) Order 2023*).

Priority flora species are defined as "possibly threatened species that do not meet the criteria for listing under the BC Act because of insufficient survey or are otherwise data deficient" or species that are "adequately known, meet criteria for near threatened, or are rare but not threatened, or that have been recently removed from the threatened species list or are conservation dependent for other than taxonomic reasons" (DBCA 2024d). Priority species are not afforded the same level of protection under state or federal legislation as the listed Threatened species, however are considered significant under the Environmental Protection Authority's *Environmental Factor Guideline: Flora and Vegetation* (Environmental Protection Authority [EPA] 2016a). DBCA categorises priority flora into four categories: Priority 1; Priority 2, Priority 3 and Priority 4 (Table A1.3).

Table A1.3: State definition of priority flora species
Note: Adapted from DBCA (2024d).

CODE	CATEGORY	DEFINITION
P1	**Priority 1:** Poorly-known species	Known from one or a few locations (< 5) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation; or are otherwise under threat of habitat destruction or degradation. In urgent need of further survey.
P2	**Priority 2:** Poorly-known species	Known from one or a few locations (< 5). Some occurrences are on lands managed primarily for nature conservation. In urgent need of further survey.
P3	**Priority 3:** Poorly-known species	Known from several locations and the species does not appear to be under imminent threat; or from few but widespread locations with either a large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. In need of further survey.
P4	**Priority 4:** Rare, Near Threatened, and other species in need of monitoring	**a) Rare -** Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands. **b) Near Threatened -** Species that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. **c) Other -** Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

APPENDIX A2: THREATENED AND PRIORITY ECOLOGICAL COMMUNITY DEFINITIONS

Under section 181 of the *EPBC Act*, **threatened ecological communities** are categorised as critically endangered, endangered and vulnerable (Table A2.1).

Table A2.1 Federal definition of threatened ecological communities
Note: Adapted from section 181 and section 182 of the *EPBC Act*.

CATEGORY	DEFINITION
Critically Endangered	If, at that time, it is facing an extremely high risk of extinction in the wild in the immediate future.
Endangered	If, at that time, it is not critically endangered and is facing a very high risk of extinction in the wild in the near future.
Vulnerable	If, at that time, it is not critically endangered or endangered, and is facing a high risk of extinction in the wild in the medium-term future.

Threatened ecological communities (TECs) are listed in the *Biodiversity Conservation (Threatened Ecological Communities) Order 2023* (under Part 2, Division 2, of the *BC Act*; DBCA 2024e). An ecological community is defined as **threatened** if it is facing an extremely high risk of collapse in the immediate, near or medium-term future, pursuant to sections 28, 29 and 30 of the *BC Act*. Threatened ecological communities are categorised as critically endangered, endangered, and vulnerable (Table A2.2).

Table A2.2 State definition of threatened ecological communities
Note: Summarised from *BC Act* and DBCA (2024e)

CODE	CATEGORY	DEFINITION
CO	**Collapsed ecological communities**	An ecological community is eligible for listing as a collapsed ecological community if either: **1.** there is no reasonable doubt that the last occurrence of the ecological community has collapsed; or **2.** the ecological community has been so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure
CR	**Critically Endangered**	An ecological community is eligible for listing as critically endangered if it is considered to be facing an extremely high risk of becoming eligible for listing as a collapsed ecological community in the immediate future when the best available evidence indicates that it meets **any** of the following criteria: **1.** The geographic distribution has been reduced by at least 80% or is less than 2000 km^2 for a single community **or** there are less than 2 areas of at least 100 km^2 **and** there is observed or inferred decline or threatening processes causing further decline; or **2.** Environmental degradation has occurred based on change in an abiotic or biotic variable affecting at least 80% of the extent of the ecological community **3.** Quantitative analysis that estimates the probability of ecological community collapse to be: at least 50% within 50 years.
EN	**Endangered**	An ecological community is eligible for listing in the category of endangered if it is considered to be facing a very high risk of becoming eligible for listing as a collapsed ecological community in the near future when the best available evidence indicates that it meets any of the following criteria: **1.** The geographic distribution has been reduced by, at least 50% or the geographic distribution is less than 20,000 km^2 for a single community **or** there are less than 20 areas of at least 100 km^2 **and** there is observed or inferred decline or threatening processes causing further decline; **2.** Environmental degradation has occurred based on change in an abiotic or biotic variable affecting either at least 50% of the extent of the ecological community; **3.** Quantitative analysis that estimates the probability of ecological community collapse to be: at least 20% within 50 years.
VU	**Vulnerable**	An ecological community is eligible for listing in the category of vulnerable at if it is considered to be facing a high risk of becoming eligible for listing as a collapsed ecological community in the medium-term future when the best available evidence indicates that it meets any of the following criteria: **1.** The geographic distribution has been reduced by, at least 30% or the geographic distribution is less than 50,000 km^2 for a single community **or** there are less than 50 areas of at least 100 km^2 **and** there is observed or inferred decline or threatening processes causing further decline; or **2.** Environmental degradation has occurred based on change in an abiotic or biotic variable affecting either at least 30% of the extent of the ecological community; or **3.** Quantitative analysis that estimates the probability of ecological community collapse to be at least 10% within 100 years.

Priority ecological communities (PECs) are defined as possible threatened ecological communities that do not meet the stringent survey criteria for the assessment of threatened ecological communities, and are listed by DBCA (2024e) in the *Priority Ecological Communities for Western Australia – Version 35 (19 June 2023)*. Similarly, to priority flora, PECs are not afforded legislative protection, however are considered significant under the EPA's (2016a) *Environmental Factor Guideline: Flora and Vegetation*. DBCA categorises PECs into five categories: Priority 1; Priority 2, Priority 3, Priority 4 and Priority 5 (Table A2.3).

Table A2.3 State definition of priority ecological communities
Note: Adapted from DBCA (2024e).

CODE	CATEGORY	DEFINITION
P1	**Priority 1** (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 or for which current threats exist. Communities may be included if they are 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
P2	**Priority 2** (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 under immediate threat (within approx. 10 yrs.) of destruction or degradation. Communities may be included if they are 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.
P3	**Priority 3** (Poorly known ecological communities)	Communities may be included if they are 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. This category includes three sub-categories: (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. (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 approx. 10 yrs.). (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 their range from processes such as grazing by, inappropriate fire regimes, clearing, hydrological change, etc
P4	**Priority 4** (Ecological communities that are adequately known, rare but not threatened or that have been recently removed from the threatened list.)	Ecological communities that are adequately known and either rare but not threatened, near threatened, or have recently been 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, and that are not currently threatened, 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 as 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.
P5	**Priority 5** (Conservation Dependent ecological communities)	Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.

APPENDIX A3: CATEGORIES AND CONTROL MEASURES OF DECLARED PEST (PLANT) ORGANISMS IN WESTERN AUSTRALIA

Section 22 of Western Australia's *Biosecurity and Agriculture Management Act 2007* (*BAM Act*) makes provision for a plant taxon to be listed as a declared pest organism in respect to parts of, or the entire State. According to the *BAM Act*, a declared pest is defined as a prohibited organism (section 12), or an organism for which a declaration under section 22 (2) of the *BAM Act* is in force.

Under the *Biosecurity and Agriculture Management Regulations 2013* (WA), declared pest plants are placed in one of three control categories, C1 (exclusion), C2 (eradication) or C3 (management), which determines the measures of control which apply to the declared pest (Table A4.1). The current listing of declared pest organisms and their control category is through the Western Australian Organism List (Department of Primary Industries and Regional Development [DPIRD] 2024b).

Table A3.1 Categories and control measures of declared pest (plant) organisms

Note: Adapted from *Biosecurity and Agriculture Management Regulations 2013*.

CONTROL CATEGORY	CONTROL MEASURES
C1 (Exclusion) '(a) Category 1 (C1) — Exclusion: if in the opinion of the Minister introduction of the declared pest into an area or part of an area for which it is declared should be prevented.' Pests will be assigned to this category if they are not established in Western Australia and control measures are to be taken, including border checks, in order to prevent them entering and establishing in the State.	In relation to a category 1 declared pest, the owner or occupier of land in an area for which an organism is a declared pest or a person who is conducting an activity on the land must take such of the control measures specified in subregulation (1) as are reasonable and necessary to destroy, prevent or eradicate the declared pest.
C2 (Eradication) '(b) Category 2 (C2) — Eradication: if in the opinion of the Minister eradication of the declared pest from an area or part of an area for which it is declared is feasible.' Pests will be assigned to this category if they are present in Western Australia in low enough numbers or in sufficiently limited areas that their eradication is still a possibility.	In relation to a category 2 declared pest, the owner or occupier of land in an area for which an organism is a declared pest or a person who is conducting an activity on the land must take such of the control measures specified in subregulation (1) as are reasonable and necessary to destroy, prevent or eradicate the declared pest.
C3 (Management) '(c) Category 3 (C3) — Management: if in the opinion of the Minister eradication of the declared pest from an area or part of an area for which it is declared is not feasible but that it is necessary to: **(i)** alleviate the harmful impact of the declared pest in the area; or **(ii)** reduce the number or distribution of the declared pest in the area; or **(iii)** prevent or contain the spread of the declared pest in the area.' Pests will be assigned to this category if they are established in Western Australia but it is feasible, or desirable, to manage them in order to limit their damage. Control measures can prevent a C3 pest from increasing in population size or density or moving from an area in which it is established into an area which currently is free of that pest.	In relation to a category 3 declared pest, the owner or occupier of land in an area for which an organism is a declared pest or a person who is conducting an activity on the land must take such of the control measures specified in subregulation (1) as are reasonable and necessary to: **(a)** alleviate the harmful impact of the declared pest in the area for which it is declared; or **(b)** reduce the number or distribution of the declared pest in the area for which it is declared; or **(c)** prevent or contain the spread of the declared pest in the area for which it is declared.

APPENDIX A4: OTHER DEFINITIONS

Environmentally sensitive areas

Environmentally sensitive areas are declared by the State Minister under section 51B of the *Environmental Protection Act 1986* (*EP Act*) and are listed in the *Environmental Protection (Environmentally Sensitive Areas) Notice 2005*, gazetted 8 April 2005. Specific environmentally sensitive areas relevant to this report include: a defined wetland and the area within 50 metres of the wetland; the area covered by vegetation within 50 metres of rare flora; the area covered by a threatened ecological community; a Bush Forever site – further areas and information are described in the *Environmental Protection (Environmentally Sensitive Areas) Notice 2005*.

Conservation significant flora

Under the *Environmental Factor Guideline: Flora and Vegetation* (Environmental Protection Authority 2016a), flora may be considered significant for a range of reasons, including, but not limited to the following:

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

Conservation significant vegetation

Under the *Environmental Factor Guideline: Flora and Vegetation* (Environmental Protection Authority 2016a), vegetation may be considered significant for a range of reasons, including, but not limited to the following:

- being identified as threatened or priority ecological communities;
- restricted distribution;
- degree of historical impact from threatening processes;
- a role as a refuge; or
- providing an important function required to maintain ecological integrity of a significant ecosystem.

APPENDIX A5: DEFINITION OF VEGETATION CONDITION SCALE FOR THE EREMAEAN AND NORTHERN BOTANICAL PROVINCES

Vegetation condition ratings relate to vegetation structure, level of disturbance at each structural layer and the ability of the vegetation unit to regenerate (Table A5.1). Vegetation condition provides complementary information for assessing the significance of potential impacts.

Table A5.1 Definition of vegetation condition categories

Note: Adapted from Trudgen (1988).

CATEGORY	DEFINITION
Excellent	Pristine or nearly so, no obvious sign of damage caused by human activities since European settlement.
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.
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.
Poor	Still retains basic vegetation structure or ability to regenerate after very obvious impacts of human activities since European settlement, such as grazing, partial clearing, frequent fires or aggressive weeds.
Degraded	Severely impacted by grazing, very frequent fires, clearing or a combination of these activities. Scope for some regeneration but not to a state approaching good condition without intensive management. Usually with a number of weed species present including very aggressive species.
Completely Degraded	Areas that are completely of 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 A6: NVIS STRUCTURAL FORMATION TERMINOLOGY

Note: Adapted from NVIS Technical Working Group (2017).

COVER CHARACTERISTICS							
Foliage cover	70-100	30-70	10-30	<10	≈0	0-5	unknown
Crown cover	>80	50-80	20-50	0.25-20	<0.25	0-5	unknown
% cover	>80	50-80	20-50	0.25-20	<0.25	0-5	unknown
Cover code	d	c	i	r	bi	bc	unknown

GROWTH FORM	HEIGHT RANGES (m)	STRUCTURAL FORMATION CLASSES						
tree, palm	<10, 10-30, >30	closed forest	open forest	woodland	open woodland	isolated trees	isolated clumps of trees	trees
tree mallee	<3, <10, 10-30	closed mallee forest	open mallee forest	mallee woodland	open mallee woodland	isolated mallee trees	isolated clumps of mallee trees	mallee trees
shrub, cycad, grass-tree, tree-fern	<1, 1-2, >2	closed shrubland	shrubland	open shrubland	sparse shrubland	isolated shrubs	isolated clumps of shrubs	shrubs
mallee shrub	<3, <10, 10-30	closed mallee shrubland	mallee shrubland	open mallee shrubland	sparse mallee shrubland	isolated mallee shrubs	isolated clumps of mallee shrubs	mallee shrubs
heath shrub	<1, 1-2, >2	closed heathland	heathland	open heathland	sparse heathland	isolated heath shrubs	isolated clumps of heath shrubs	heath shrubs
chenopod shrub	<1, 1-2, >2	closed chenopod shrubland	chenopod shrubland	open chenopod shrubland	sparse chenopod shrubland	isolated chenopod shrubs	isolated clumps of chenopod shrubs	chenopod shrubs
samphire shrub	<0.5, >0.5	closed samphire shrubland	samphire shrubland	open samphire shrubland	spare samphire shrubland	isolated samphire shrubs	isolated clumps of samphire shrubs	samphire shrubs
hummock grass	<2, >2	closed hummock grassland	hummock grassland	open hummock grassland	sparse hummock grassland	isolated hummock grasses	isolated clumps of hummock grasses	hummock grasses
tussock grass	<0.5, >0.5	closed tussock grassland	tussock grassland	open tussock grassland	sparse tussock grassland	isolated tussock grassland	isolated clumps of tussock grasses	tussock grasses
other grass	<0.5, >0.5	closed grassland	grassland	open grassland	sparse grassland	isolated grasses	isolated clumps of grasses	other grasses
sedge	<0.5, >0.5	closed sedgeland	sedgeland	open sedgeland	sparse sedgeland	isolated sedges	isolated clumps of sedges	sedges
rush	<0.5, >0.5	closed rushland	rushland	open rushland	sparse rushland	isolated rushes	isolated clumps of rushes	rushes
forb	<0.5, >0.5	closed forbland	forbland	open forbland	sparse forbland	isolated forbs	isolated clumps of forbs	forbs
fern	<1, 1-2, >2	closed fernland	fernland	open fernland	sparse fernland	isolated ferns	isolated clumps of ferns	ferns
bryophyte	<0.5	closed bryophytelan d	bryophytelan d	open bryophytela nd	sparse bryophyteland	isolated bryophytes	isolated clumps of bryophytes	bryophytes
lichen	<0.5	closed lichenland	lichenland	open lichenland	sparse lichenland	isolated lichens	isolated clumps of lichens	lichens
vine	<10, 10-30, >30	closed vineland	vineland	open vineland	sparse vineland	isolated vines	isolated clumps of vines	vines
aquatic	0-0.5, <1	closed aquatic bed	aquatic bed	open aquatic bed	sparse aquatics	isolated aquatics	isolated clumps of aquatics	aquatics
seagrass	0-0.5, <1	closed seagrass bed	seagrass bed	open seagrass bed	sparse seagrasses	isolated seagrasses	isolated clumps of seagrasses	seagrasses

APPENDIX B: VASCULAR PLANT SPECIES RECORDED IN THE DESKTOP AND FIELD SURVEY, YINDJIBARNDI RENEWABLE ENERGY PROJECT, 2024

Notes: * denotes introduced species; T denotes threatened flora and P1-P4 denote priority flora species (DBCA 2024d, WAH 1998-)

Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Acanthaceae	*Dicladanthera forrestii*	x					
	Dicliptera armata	x					x
	Dipteracanthus australasicus subsp. *australasicus*	x					
	Rostellularia adscendens subsp. *clementii*	x					x
	Rostellularia adscendens subsp. *pogonanthera*	x					
Aizoaceae	*Trianthema cusackianum*	x					
	Trianthema glossostigmum	x					
	Trianthema pilosum	x					
	Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)	x			x		x
	Trianthema triquetrum	x					
	Trianthema turgidifolium	x					
	Zaleya galericulata subsp. *galericulata*	x					
Amaranthaceae	*Achyranthes aspera*	x					
	* *Aerva javanica*	x				x	x
	Alternanthera angustifolia	x					
	Alternanthera denticulata	x					
	Alternanthera nana	x					x
	Alternanthera nodiflora	x				x	x
	* *Alternanthera pungens*	x					
	Alternanthera sp.						x
	Amaranthus cuspidifolius	x					
	Amaranthus pallidiflorus	x					
	Amaranthus undulatus	x					x
	Gomphrena affinis subsp. *pilbarensis*	x					
	Gomphrena canescens	x					x
	Gomphrena canescens subsp. *canescens*	x					
	Gomphrena connata	x					
	Gomphrena cunninghamii	x				x	x
	?*Gomphrena* sp.					x	
	Ptilotus aervoides	x					x
	Ptilotus astrolasius	x				x	x
	Ptilotus auriculifolius	x					x
	Ptilotus axillaris	x					
	Ptilotus calostachyus	x				x	x
	Ptilotus carinatus	x					x
	Ptilotus clementii	x					x
	Ptilotus exaltatus	x				x	x
	Ptilotus fusiformis	x					

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Amaranthaceae	*Ptilotus gaudichaudii*	x					x
(continued)	*Ptilotus gomphrenoides*	x					x
	Ptilotus grandiflorus	x					
	Ptilotus helipteroides	x					
	Ptilotus incanus	x					x
	Ptilotus macrocephalus	x					
	Ptilotus murrayi	x					
	Ptilotus nobilis	x					
	Ptilotus obovatus	x					x
	Ptilotus polystachyus	x					x
	Ptilotus rotundifolius	x					x
	Ptilotus schwartzii						x
	Ptilotus villosiflorus	x					
	Ptilotus sp.					x	x
Apiaceae	*Centella asiatica*	x					
	* *Cyclospermum leptophyllum*	x					
Apocynaceae	*Carissa lanceolata*	x					
	Cynanchum floribundum	x					x
	Cynanchum viminale						x
	Cynanchum viminale subsp. *australe*						x
	Cynanchum sp.	x					x
Aponogetonaceae	*Aponogeton euryspermus*	x					
Araliaceae	*Trachymene oleracea*	x					
	Trachymene oleracea ssp. *oleracea*	x					x
	Livistona alfredii (P4)	x			x	x	
	* *Phoenix dactylifera*	x					
	* *Washingtonia filifera*	x					
Asteraceae	* *Acanthospermum hispidum*	x					
	Apowollastonia hamersleyensis	x					
	Blumea tenella	x					
	Calocephalus beardii	x					x
	Centipeda minima	x					x
	Centipeda minima subsp. *macrocephala*	x					
	Tribulus suberosus					x	
	* *Flaveria trinervia*	x					x

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Asteraceae	*Ixiochlamys cuneifolia*	x				x	x
(continued)	*Minuria integerrima*	x					
	Pentalepis trichodesmoides	x					
	Pentalepis trichodesmoides subsp. *hispida* (P2)	x			x	x	x
	Peripleura virgata	x					
	Pluchea dentex	x					
	Pluchea rubelliflora	x				x	x
	Pluchea sp.					x	x
	Pseudognaphalium luteoalbum	x					
	Pterocaulon serrulatum	x					
	Pterocaulon sphacelatum	x					x
	Pterocaulon sphaeranthoides	x				x	x
	Rhodanthe margarethae	x					x
	* *Sonchus oleraceus*	x					x
	Streptoglossa adscendens	x					
	Streptoglossa bubakii	x					x
	Streptoglossa cylindriceps	x					
	Streptoglossa decurrens	x					x
	Streptoglossa liatroides	x					
	Streptoglossa odora	x					
	Streptoglossa sp.					x	
	Asteraceae sp.					x	x
Bignoniaceae	*Dolichandrone occidentalis*	x					
Boraginaceae	*Ehretia saligna* (Thuwirriny)						x
	Ehretia saligna subsp. *saligna*	x				x	x
	Euploca chrysocarpa	x					
	Euploca conocarpa	x					
	Euploca cunninghamii	x				x	x
	Euploca glandulifera	x					
	Euploca heterantha	x					
	Euploca inexplicita	x					
	Euploca ovalifolia	x				x	x
	Euploca pachyphylla	x					
	Euploca skeleton	x					x
	Euploca sp.	x					
	Euploca tanythrix	x					
	Euploca tenuifolia	x					
	Heliotropium ammophilum	x					

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Boraginaceae	*Heliotropium crispatum*	x					x
(continued)	*Heliotropium curassavicum*	x					
	Trichodesma zeylanicum	x					
	Trichodesma zeylanicum subsp. *zeylanicum*	x				x	x
	Boraginaceae sp.					x	
	* *Lepidium didymum*	x					
	Lepidium pedicellosum	x				x	
	Lepidium pholidogynum	x					
Brassicaceae	*Lepidium platypetalum*	x					
	Lepidium sp.	x					
Campanulaceae	*Lobelia arnhemiaca*	x				x	x
	Wahlenbergia caryophylloides	x					
	Wahlenbergia tumidifructa	x					
Capparaceae	*Capparis lasiantha*	x					
	Capparis spinosa (Bajila)	x					
	Capparis spinosa subsp. *nummularia*	x					
	Capparis umbonata	x					
Caryophyllaceae	*Polycarpaea corymbosa*	x					x
	Polycarpaea holtzei	x				x	x
	Polycarpaea involucrata	x					
	Polycarpaea longiflora	x				x	x
	Polycarpaea sp.					x	
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)	x					
	Stackhousia intermedia	x					
	Stackhousia muricata subsp. annual (W.R. Barker 2172)	x					
	Stackhousia sp. swollen gynophore (W.R. Barker 2041)	x					
Chenopodiaceae	*Atriplex codonocarpa*	x					
	Atriplex sp.					x	
	* *Chenopodium murale*	x					
	Dysphania kalpari	x					x
	Dysphania rhadinostachya	x					
	Dysphania rhadinostachya subsp. *rhadinostachya*	x					
	Dysphania sp.						x
	Dysphania sphaerosperma	x					

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Chenopodiaceae (continued)	*Enchylaena tomentosa* subsp. *tomentosa*					x	
	Maireana georgei	x					
	Maireana melanocoma	x					
	Maireana tomentosa subsp. *tomentosa*	x					
	Rhagodia eremaea	x					x
	Salsola australis	x				x	
	Sclerolaena cornishiana	x					
	Sclerolaena costata	x					
	Sclerolaena cuneata	x					
	Sclerolaena densiflora	x					
	Sclerolaena gardneri					x	
	Sclerolaena glabra	x					
	Sclerolaena hostilis	x					
	Sclerolaena sp.	x					
Cleomaceae	*Arivela viscosa*	x				x	x
Combretaceae	*Terminalia circumalata*	x				x	x
Commelinaceae	*Commelina ensifolia*	x					x
Convolvulaceae	*Bonamia erecta*	x					x
	Bonamia linearis						x
	Bonamia media	x					x
	Bonamia pannosa	x					x
	Bonamia pilbarensis	x					
	Bonamia rosea	x					
	* *Distimake dissectus* var. *dissectus*	x					
	Duperreya commixta	x					
	Evolvulus alsinoides	x					x
	Evolvulus alsinoides subsp. *alsinoides*						x
	Evolvulus alsinoides subsp. *decumbens*	x					x
	Evolvulus alsinoides subsp. *villosicalyx*	x				x	x
	Evolvulus sp.						x
	Ipomoea coptica	x					
	Ipomoea costata	x					x
	Ipomoea lonchophylla	x					x
	Ipomoea muelleri	x					x
	Ipomoea pes-caprae subsp. *brasiliensis*	x					
	Ipomoea plebeia	x					

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Convolvulaceae	*Ipomoea polymorpha*	x					
(continued)	*Ipomoea racemigera* (P2)	x			x		
	Ipomoea sp.	x				x	
	Jacquemontia browniana	x					
	Jacquemontia pannosa	x					
	Operculina aequisepala	x					
	Polymeria ambigua	x				x	x
	Polymeria calycina	x					x
	Polymeria mollis	x					x
	Convolvulaceae sp.					x	x
Cucurbitaceae	*Austrobryonia pilbarensis*	x					x
	* *Citrullus colocynthis*	x					
	Cucumis melo	x					x
	Cucumis picrocarpus	x					
Cucurbitaceae	*Cucumis* sp.	x				x	x
	Cucumis variabilis	x					x
	Trichosanthes cucumerina	x					
Cyperaceae	*Baumea juncea* (Yahhirri)	x					
	Bulbostylis barbata	x					x
	Bulbostylis burbidgeae	x					
	Cladium procerum (P2)	x			x		
	Cyperus betchei subsp. *commiscens*	x					
	Cyperus bifax	x					
	Cyperus dactylotes	x					
	Cyperus difformis	x					
	Cyperus hesperius	x					
	Cyperus iria	x					x
	Cyperus leptocarpus	x					
	Cyperus polystachyos	x					
	Cyperus rigidellus	x					
	Cyperus squarrosus	x					
	Cyperus vaginatus (Yalhirri)	x				x	x
	Eleocharis atropurpurea	x					
	Eleocharis dulcis	x					
	Eleocharis geniculata	x				x	x
	Fimbristylis cephalophora	x					
	Fimbristylis depauperata	x					
	Fimbristylis dichotoma	x					x

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Cyperaceae	*Fimbristylis elegans*	x					
(continued)	*Fimbristylis ferruginea*	x				x	
	Fimbristylis littoralis	x					
	Fimbristylis microcarya	x					
	Fimbristylis phaeoleuca	x					
	Fimbristylis rara	x					
	Fimbristylis sieberiana (P3)	x		x	x		
	Fimbristylis simulans	x					
	Fuirena ciliaris	x					
	Schoenoplectiella dissachantha	x					
	Schoenoplectus pungens	x					
	Schoenoplectus subulatus	x				x	x
	Schoenus falcatus	x				x	x
	Cyperaceae sp.					x	x
Dilleniaceae	*Hibbertia glaberrima*	x					
Droseraceae	*Drosera finlaysoniana*	x					
Droseraceae	*Drosera* sp.	x					
Elatinaceae	*Bergia ammannioides*	x					
	Bergia pedicellaris	x					
	Bergia trimera	x					x
Eriocaulaceae	*Eriocaulon cinereum*	x					
Euphorbiaceae	*Adriana tomentosa*	x					
	Adriana tomentosa subsp. *tomentosa*	x					
	Euphorbia australis	x					
	Euphorbia australis subsp. *glabra* (P3)	x			x		
	Euphorbia australis subsp. *subtomentosa*						x
	Euphorbia biconvexa	x					
	Euphorbia boophthona	x					x
	Euphorbia careyi	x				x	x
	Euphorbia coghlanii	x					x
	Euphorbia drummondii	x					
	Euphorbia inappendiculata var. *inappendiculata* (P3)	x			x		x
	Euphorbia myrtoides (Biwiyu)	x					
	Euphorbia sp.	x				x	
	Euphorbia sp. 1					x	

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Euphorbiaceae	*Euphorbia* sp. 2					x	
(continued)	*Euphorbia stevenii* (P3)	x			x		x
	Euphorbia tannensis subsp. *eremophila*	x					x
	Euphorbia trigonosperma	x					x
	Euphorbia vaccaria subsp. *erucoides*	x					
	Euphorbia vaccaria subsp. *vaccaria*	x					x
Fabaceae	*Acacia ?sibirica*					x	
	Acacia acradenia	x				x	
	Acacia adsurgens	x					
	Acacia ampliceps	x				x	x
	Acacia ampliceps x *bivenosa*	x					
	Acacia ampliceps x *sclerosperma* subsp. *sclerosperma*	x					
	Acacia ancistrocarpa (Barbirriny)	x				x	x
	Acacia aptaneura	x					
	Acacia arida	x				x	x
	Acacia arrecta	x					
	Acacia atkinsiana	x					
	Acacia bivenosa	x				x	x
	Acacia bivenosa x *sclerosperma* subsp. *sclerosperma*	x					
	Acacia citrinoviridis (Jarrawayi)	x					
	Acacia colei (Gurganyan)	x					
	Acacia colei subsp. *colei*	x				x	x
	Acacia colei subsp. *ileocarpa*	x					
	Acacia coriacea subsp. *pendens*	x				x	x
	Acacia dictyophleba	x					
	Acacia elachantha	x					
	Acacia hilliana	x					
	Acacia inaequilatera (Bardirri)	x				x	x
	Acacia ligulata					x	
	Acacia maitlandii	x				x	x
	Acacia monticola	x					
	Acacia monticola x *trachycarpa*	x					
	Acacia orthocarpa	x					
	Acacia pyrifolia (Ganyji)	x					
	Acacia pyrifolia subsp. *morrisonii*	x				x	
	Acacia pyrifolia subsp. *pyrifolia*	x				x	x
	Acacia retivenea subsp. *clandestina*	x					
	Acacia sabulosa	x					
	Acacia sclerosperma subsp. *sclerosperma*	x					

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Fabaceae	*Acacia* section *Juliflorae*	x					
(continued)	*Acacia sibina*						x
	Acacia sphaerostachya	x					
	Acacia spondylophylla	x					
	Acacia stellaticeps	x					
	Acacia synchronicia	x					
	Acacia tenuissima	x					
	Acacia trachycarpa	x				x	x
	Acacia trachycarpa x *tumida* var. *pilbarensis*	x					
	Acacia trudgeniana	x					
	Acacia tumida	x					x
	Acacia tumida subsp. *pilbarensis* (Muwarlingu)	x				x	x
	Acacia xiphophylla	x				x	
	Acacia sp.	x					x
	Aeschynomene indica	x					
	Alysicarpus muelleri	x					x
	Cajanus cinereus	x					x
	Cajanus pubescens	x					
	Crotalaria cunninghamii	x					
	Crotalaria cunninghamii subsp. *sturtii*	x					
	Crotalaria dissitiflora subsp. *benthamiana*	x					
*	*Crotalaria juncea*	x					
	Crotalaria medicaginea	x					x
	Crotalaria medicaginea subsp. *neglecta*	x					x
	Crotalaria novae-hollandiae	x					
	Crotalaria novae-hollandiae subsp. *novae-hollandiae*	x					x
	Crotalaria sp.						x
	Cullen cinereum	x					x
	Cullen graveolens	x					
	Cullen lachnostachys	x					
	Cullen leucanthum	x					x
	Cullen leucochaites	x				x	x
	Cullen martinii	x					
	Cullen pogonocarpum	x					
	Cullen stipulaceum	x					
	Cullen sp.						x
	Desmodiopsis campylocaulon	x					
	Dichrostachys spicata	x					x
	Erythrina vespertilio					x	x
	Gastrolobium grandiflorum	x					

APPENDIX B: VASCULAR PLANT SPECIES RECORDED IN THE DESKTOP AND FIELD SURVEY, YINDJIBARNDI RENEWABLE ENERGY PROJECT, 2024

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Fabaceae (continued)	*Glycine canescens*	x					
	Glycine sp.	x					
	Grona filiformis	x					
	Grona muelleri	x					
	Indigastrum parviflorum	x					x
	Indigofera colutea	x					x
	Indigofera fractiflexa subsp. *fractiflexa*	x					
	Indigofera linifolia	x				x	x
	Indigofera linnaei	x					
	Indigofera monophylla	x				x	x
	Indigofera rugosa	x					x
	Indigofera sp.					x	
	Indigofera trita	x					x
	Indigofera trita subsp. *trita*	x					x
	Isotropis atropurpurea	x					x
	Lotus australis	x					x
	Lotus cruentus	x					x
	Mirbelia viminalis	x					
	Neptunia dimorphantha	x					
	Neptunia longipila (P2)	x			x		x
	Neptunia monosperma	x					
	Neptunia sp.					x	
	* *Parkinsonia aculeata*	x				x	
	Petalostylis cassioides	x					
	Petalostylis labicheoides	x					
	Petalostylis millefolium	x					
	Rhynchosia ?*minima*					x	
	Rhynchosia australis	x					
	Rhynchosia bungarensis (P4)	x			x		x
	Rhynchosia minima	x				x	x
	Rhynchosia sp.	x					
	Senna artemisioides						x
	Senna artemisioides subsp. *helmsii*	x				x	x
	Senna artemisioides subsp. *oligophylla* (Nyirri)	x				x	x
	Senna glutinosa	x					
	Senna glutinosa subsp. *glutinosa*	x				x	x
	Senna glutinosa subsp. *pruinosa*	x					x
	Senna glutinosa subsp. x *luerssenii*	x					
	Senna hamersleyensis	x					
	Senna notabilis	x					x

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Fabaceae	*Senna ?notabilis*					x	
(continued)	*Senna stricta*	x					
	Senna symonii	x					
	Senna venusta	x					
	Sesbania cannabina	x				x	x
	Sesbania formosa	x				x	
	Sesbania sp.	x					
	Swainsona formosa	x					x
	Swainsona forrestii	x					
	Swainsona kingii	x					
	Swainsona oliveri	x					
	Swainsona pterostylis	x					
	Swainsona stenodonta	x					x
	Swainsona thompsoniana (P3)	x			x		
	Tephrosia clementii	x					
	Tephrosia densa	x					
	Tephrosia lithosperma (P1)	x			x		
	Tephrosia oxalidea	x					
	Tephrosia rosea	x					
	Tephrosia rosea subsp. *clementii*	x				x	x
	Tephrosia rosea subsp. Fortescue creeks (M.I.H. Brooker 2186)	x					
	Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)	x					x
	Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	x					x
	Tephrosia sp. clay soils (S. van Leeuwen et al. PBS 0273)	x					x
	Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	x					x
	Tephrosia stipuligera	x					
	Tephrosia supina	x					x
	Tephrosia uniovulata	x					
	Tephrosia virens	x					
	Tephrosia sp.	x				x	x
	* *Vachellia farnesiana*	x					x
	Vigna lanceolata	x					
	Vigna lanceolata subsp. *lanceolata*	x					x
	Vigna sp. Hamersley Clay (A.A. Mitchell PRP 113)	x					
	Vigna triodiophila (P3)				x		
	Vigna sp.	x					x
	Fabaceae sp.					x	x
Gentianaceae	*Schenkia australis*	x					
	Schenkia clementii	x					

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Gentianaceae (continued)	*Schenkia* sp.					x	
Goodeniaceae	*Dampiera candicans*	x				x	x
	Goodenia connata	x					
	Goodenia cusackiana	x					
	Goodenia discophora	x					
	Goodenia forrestii	x					
	Goodenia havilandii	x					
	Goodenia lamprosperma	x					x
	Goodenia ?lamprosperma					x	
	Goodenia microptera	x					x
	Goodenia muelleriana	x					x
	Goodenia nuda	x					
	Goodenia pascua	x					
	Goodenia scaevolina	x				x	x
	Goodenia stobbsiana	x				x	
	Goodenia tenuiloba	x					
	Goodenia triodiophila	x					
	Goodenia sp.	x				x	
	Scaevola acacioides	x					
	Scaevola myrtifolia	x					
	Scaevola spinescens	x					x
	Goodeniaceae sp.					x	
Gyrostemonaceae	*Codonocarpus cotinifolius*	x					
	Gyrostemon sp.					x	
Haloragaceae	*Gonocarpus ephemerus*	x					
	Haloragis gossei	x					
	Haloragis gossei subsp. *gossei*	x					
	Haloragis gossei subsp. *inflata*	x					
	Haloragis trigonocarpa	x					
Haloragaceae	*Myriophyllum verrucosum*	x					
Hydrocharitaceae	*Najas marina*	x					
	Najas tenuifolia	x					
	Vallisneria annua	x					x
	Vallisneria nana	x					

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Juncaceae	*Juncus kraussii* subsp. *australiensis*	x					
Lamiaceae	*Basilicum polystachyon*	x					
	Clerodendrum floribundum (Wayjba)	x					
	Clerodendrum floribundum subsp. *angustifolium*	x					x
	Clerodendrum floribundum subsp. *floribundum*	x					
	Clerodendrum tomentosum subsp. *lanceolatum*	x					x
	Cyanostegia cyanocalyx	x					
	Teucrium pilbaranum (P2)	x			x		
Lauraceae	*Cassytha capillaris*	x					
	Cassytha filiformis	x					x
	Cassytha sp.					x	x
Lentibulariaceae	*Utricularia australis*	x					
Loranthaceae	*Amyema benthamii*	x					
	Amyema bifurcata	x					
	Amyema miquelii	x					
	Amyema preissii	x					
	Amyema sanguinea	x					
	Amyema sanguinea subsp. *sanguinea*	x				x	
	Amyema xiphophylla	x					
	Diplatia grandibractea	x					
	Lysiana casuarinae	x					
Lythraceae	*Ammannia baccifera*	x					x
	Ammannia multiflora	x					
	Rotala diandra	x					
	Rotala mexicana	x					
Malvaceae	*Abelmoschus ficulneus*	x					
	Abutilon amplum	x					
	Abutilon cunninghamii	x					
	Abutilon fraseri	x					
	Abutilon hannii	x					
	Abutilon lepidum	x					x
	Abutilon malvifolium	x					
	Abutilon otocarpum	x					
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	x					

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Malvaceae	*Abutilon* sp. Pilbara (W.R. Barker 2025)	x					
(continued)	*Abutilon* sp.	x					x
	Androcalva luteiflora	x					
	Brachychiton acuminatus	x				x	x
	Corchorus aestuans	x					
	Corchorus incanus subsp. *incanus*	x					
	Corchorus laniflorus	x					
	Corchorus ?lasiocarpus					x	
	Corchorus lasiocarpus subsp. *parvus*	x					x
	Corchorus parviflorus	x					
	Corchorus sidoides subsp. *sidoides*						x
	Corchorus sp. Hamersley Range hilltops (S. van Leeuwen 3826)	x					
	Corchorus tectus	x					
	Corchorus tridens	x					
	Corchorus trilocularis	x					
	Corchorus walcottii	x					x
	Corchorus sp.	x				x	x
	Gossypium australe	x				x	x
	Gossypium robinsonii	x				x	x
	Gossypium sp.						x
	Hibiscus austrinus	x					
	Hibiscus austrinus subsp. *austrinus*	x					
	Hibiscus brachychlaenus	x					
	Hibiscus brachysiphonius	x					
	Hibiscus burtonii	x					x
	Hibiscus coatesii	x					
	Hibiscus goldsworthii	x					
	Hibiscus haynaldii	x					
	Hibiscus leptocladus	x					
	Hibiscus sturtii	x					
	Hibiscus sturtii subsp. *campylochlamys*	x					x
	Hibiscus sturtii subsp. *platychlamys*	x					
	Hibiscus trionum	x					
	Hibiscus trionum subsp. *vesicarius*	x					
	Hibiscus verdcourtii	x					x
	Hibiscus sp.	x					
	* *Malvastrum americanum*	x					x
	* *Malvastrum coromandelianum*	x					

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Malvaceae	*Melhania oblongifolia*	x					x
(continued)	* *Melochia pyramidata*	x					x
	Seringia nephrosperma	x					x
	Sida arenicola	x					
	Sida arsiniata	x					
	Sida clementii	x					
	Sida echinocarpa	x					x
	Sida fibulifera	x					
	Sida ?*fibulifera*					x	
	Sida pilbarensis	x					
	* *Sida rhombifolia*	x					
	Sida rohlenae	x					
	Sida rohlenae subsp. *rohlenae*						x
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)	x					x
	Sida sp. L (A.M. Ashby 4202)	x					
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)	x					x
	Sida sp. Shovelanna Hill (S. van Leeuwen 3842)	x					
	Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90)	x					
	Sida spinosa	x					
	Sida trichopoda						x
	Sida sp.	x				x	x
	Triumfetta appendiculata	x					x
	Triumfetta chaetocarpa	x					
	Triumfetta clementii	x					x
	Triumfetta johnstonii	x					
	Triumfetta maconochieana	x					x
	Triumfetta plumigera	x					
	Triumfetta propinqua						x
	Triumfetta ramosa	x					
	Triumfetta sp.					x	x
	Waltheria indica					x	x
	Malvaceae sp.					x	x
Marsileaceae	*Marsilea angustifolia*	x					
	Marsilea drummondii	x					
	Marsilea exarata	x					
	Marsilea hirsuta	x				x	x
	Marsilea sp.	x					

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Meliaceae	*Owenia acidula* (P3)	x		x	x		
Menispermaceae	*Tinospora smilacina* (Gurrbinyurra)	x				x	x
Molluginaceae	*Glinus lotoides*					x	
	Glinus oppositifolius	x					
	Trigastrotheca molluginea	x				x	x
Moraceae	*Ficus aculeata* subsp. *indecora*	x				x	x
	Ficus brachypoda (Winyarrangu)	x					
	Ficus platypoda	x					
	Ficus virens	x					
	Ficus virens subsp. *virens*	x					
	Ficus sp.	x					
Myrtaceae	*Corymbia deserticola* subsp. *deserticola*	x					
	Corymbia ferriticola	x					
	Corymbia flavescens	x					
	Corymbia hamersleyana (Bunaanga)	x				x	x
	Corymbia opaca	x					
	Eucalyptus camaldulensis (Wirranggaa)	x				x	x
	Eucalyptus camaldulensis subsp. *obtusa*	x					
	Eucalyptus camaldulensis subsp. *refulgens*	x					
	Eucalyptus gamophylla	x					
	Eucalyptus leucophloia (Majgan)	x					
	Eucalyptus leucophloia subsp. *leucophloia*	x				x	x
	Eucalyptus lucasii	x					
	Eucalyptus victrix (Wirlu)	x				x	x
	Eucalyptus xerothermica	x					
	Eucalyptus sp.	x				x	
	Melaleuca argentea (Jirlurru or Marba)	x				x	x
	Melaleuca bracteata	x					x
	Melaleuca eleuterostachya	x					
	Melaleuca globifera	x					
	Melaleuca glomerata (Gurliwirn)	x				x	x
	Melaleuca linophylla	x				x	x
	Thryptomene wittweri (T)		x				

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Nyctaginaceae	*Boerhavia burbidgeana*	x					x
	Boerhavia coccinea	x					
	Boerhavia gardneri	x				x	x
	Boerhavia paludosa	x					
	Boerhavia repleta	x					
	Boerhavia sp.					x	x
Nymphaeaceae	* *Nymphaea pubescens*	x					
Oleaceae	*Jasminum didymum*	x					
	Jasminum didymum subsp. *lineare*	x				x	x
Onagraceae	*Ludwigia perennis*	x					x
Orobanchaceae	*Buchnera linearis*	x					
	Striga curviflora	x					
	Striga squamigera	x					
Papaveraceae	* *Argemone ochroleuca*	x					
Passifloraceae	* *Passiflora foetida*	x					
	* *Passiflora foetida* subsp. *hispida*	x					
Phrymaceae	*Mimulus gracilis*	x					
	Peplidium sp. E Evol. Fl. Fauna Arid Aust. (A.S. Weston 12768)	x				x	x
	Peplidium sp.	x					
Phyllanthaceae	*Cathetus exilis*	x					
	Dendrophyllanthus erwinii	x					
	Flueggea virosa	x					
	Flueggea virosa subsp. *melanthesoides*	x				x	x
	Kirganelia baccata	x					x
	Nellica maderaspatensis	x				x	x
	Notoleptopus decaisnei	x					x
	Synostemon rhytidospermus	x					
Plantaginaceae	*Stemodia grossa* (Minyjarra)	x				x	x
	Stemodia kingii	x					x

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Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Plantaginaceae	*Stemodia viscosa*	x					
(continued)	*Stemodia* sp.					x	x
Plumbaginaceae	*Plumbago zeylanica*						x
Poaceae	*Amphipogon sericeus*	x					
	Aristida anthoxanthoides	x					
	Aristida burbidgeae	x					x
	Aristida contorta	x				x	x
	Aristida holathera	x					x
	Aristida holathera subsp. *holathera*	x					x
	Aristida inaequiglumis	x					
	Aristida latifolia	x				x	x
	Astrebla elymoides	x					x
	Astrebla pectinata	x					x
	Bothriochloa bladhii	x					
	Bothriochloa bladhii subsp. *bladhii*	x					
	Bothriochloa ewartiana	x					x
	* *Cenchrus ciliaris*	x				x	x
	* *Cenchrus echinatus*	x					
	* *Cenchrus setiger*	x					
	* *Chloris barbata*	x				x	
	Chloris pectinata	x					
	* *Chloris virgata*	x					
	Chloris sp.	x					
	Chrysopogon fallax	x				x	x
	Chrysopogon sp.					x	
	Cymbopogon ambiguus (Malhanggaa)	x				x	x
	Cymbopogon obtectus	x					x
	Cymbopogon sp.						x
	Cynodon convergens	x				x	x
	* *Cynodon dactylon*	x					x
	Cynodon prostratus	x					
	Dactyloctenium radulans	x					
	Dichanthium fecundum	x					
	Dichanthium sericeum	x					
	Dichanthium sericeum subsp. *humilius*	x					x
	Dichanthium sericeum subsp. *sericeum*	x					

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Poaceae	*Digitaria ctenantha*	x					
(continued)	*Diplachne fusca*	x					
	Diplachne fusca subsp. *fusca*	x				x	x
	* *Echinochloa colona*	x					
	Elytrophorus spicatus	x					
	Enneapogon caerulescens	x				x	x
	Enneapogon cylindricus	x					
	Enneapogon lindleyanus	x					x
	Enneapogon ?lindleyanus					x	
	Enneapogon polyphyllus	x					x
	Enneapogon purpurascens	x					
	Enteropogon ramosus	x					
	Eragrostis benthamii	x					
	Eragrostis crateriformis (P3)	x		x	x		
	Eragrostis cumingii	x					x
	Eragrostis dielsii	x					
	Eragrostis elongata	x				x	
	Eragrostis eriopoda	x					
	Eragrostis leptocarpa	x					
	Eragrostis pergracilis	x					
	Eragrostis setifolia	x					
	* *Eragrostis tenella*	x					
	Eragrostis tenellula	x					x
	Eragrostis xerophila	x				x	
	Eragrostis sp.					x	
	Eriachne aristidea	x					
	Eriachne benthamii	x				x	x
	Eriachne ciliata	x				x	
	Eriachne festucacea	x					
	Eriachne flaccida	x					
	Eriachne mucronata	x				x	x
	Eriachne pulchella	x				x	
	Eriachne pulchella subsp. *dominii*	x					x
	Eriachne pulchella subsp. *pulchella*	x					
	Eriachne tenuiculmis	x					
	Eriachne sp.	x				x	x
	Eulalia aurea	x				x	x
	Heteropogon contortus	x				x	x

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Poaceae (continued)	*Imperata cylindrica*	x					
	Ischaemum albovillosum	x					
	Iseilema ?vaginiflorum					x	
	Iseilema dolichotrichum	x					
	Iseilema fragile	x					
	Iseilema macrantherum	x					x
	Iseilema vaginiflorum	x					
	Iseilema sp.	x					x
	Neurachne muelleri						x
	Panicum australiense	x					
	Panicum decompositum (Bilaa)	x				x	x
	Panicum laevinode	x					
	Panicum sp.					x	x
	Paraneurachne muelleri	x					
	Paspalidium basicladum	x					x
	Paspalidium clementii	x					x
	Paspalidium jubiflorum	x					
	Paspalidium rarum	x					
	Paspalidium retiglume (P2)	x		x	x		
	Paspalidium tabulatum	x					x
	Paspalidium sp.						x
	Perotis rara	x					
	Phragmites karka	x					
	Schizachyrium fragile	x					
	Setaria dielsii	x					
	* *Setaria verticillata*	x					x
	Sorghum timorense	x					
	Sporobolus actinocladus					x	
	Sporobolus australasicus	x				x	x
	Sporobolus mitchellii	x					
	Sporobolus virginicus	x					
	Sporobolus sp.						x
	Themeda sp. Hamersley Station (M.E. Trudgen 11431) (P3)	x			x		
	Themeda triandra	x				x	x
	Triodia angusta	x				x	
	Triodia basitricha (P3)	x			x		
	Triodia brizoides	x				x	
	Triodia epactia (Yahli)	x				x	x

APPENDIX B: VASCULAR PLANT SPECIES RECORDED IN THE DESKTOP AND FIELD SURVEY, YINDJIBARNDI RENEWABLE ENERGY PROJECT, 2024

Notes: * denotes introduced species; T denotes threatened flora and P1-P4 denote priority flora species (DBCA 2024d, WAH 1998-)

Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Poaceae	*Triodia longiceps*	x					
(continued)	*Triodia pisoliticola* (P3)	x			x	x	
	Triodia pungens	x					
	Triodia schinzii	x					
	Triodia wiseana (Wirrbingurra or Baru)	x				x	x
	Triodia sp.	x				x	x
	Urochloa occidentalis	x					
	Urochloa occidentalis subsp. *occidentalis*	x					
	Xerochloa barbata	x					
	Poaceae sp.					x	x
Polygalaceae	*Polygala glaucifolia*	x					
	Polygala isingii	x					
Polygonaceae	* *Rumex vesicarius*	x					
Portulacaceae	*Calandrinia ptychosperma*	x					x
	Calandrinia tepperiana	x					
	Portulaca bicolor	x					
	Portulaca conspicua	x					
	Portulaca filifolia						x
	Portulaca intraterranea	x					
	Portulaca oleracea	x					x
	* *Portulaca pilosa*	x					
Potamogetonaceae	*Potamogeton tepperi*	x					x
	Potamogeton ?tepperi					x	
	Potamogeton sp.	x					
Primulaceae	*Samolus repens*	x					
	Samolus sp. Millstream (M.I.H. Brooker 2076)	x				x	
	Samolus sp.	x					
Proteaceae	*Grevillea berryana*	x				x	
	Grevillea pyramidalis	x					
	Grevillea pyramidalis subsp. *leucadendron* (Gura)	x				x	x
	Grevillea wickhamii (Ngajarndangu)	x				x	x
	Grevillea wickhamii subsp. *aprica*	x					

APPENDIX B: VASCULAR PLANT SPECIES RECORDED IN THE DESKTOP AND FIELD SURVEY, YINDJIBARNDI RENEWABLE ENERGY PROJECT, 2024

Notes: * denotes introduced species; T denotes threatened flora and P1-P4 denote priority flora species (DBCA 2024d, WAH 1998-)

Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Proteaceae	*Grevillea wickhamii* subsp. *hispidula*	x					
(continued)	*Grevillea* sp.					x	
	Hakea chordophylla	x				x	x
	Hakea lorea (Garruwa)	x				x	x
	Hakea lorea subsp. *lorea*	x					
	Aristida burbidgeae						x
Pteridaceae	*Ceratopteris thalictroides*	x					
	Cheilanthes contigua	x					
	Cheilanthes lasiophylla	x					
	Cheilanthes sieberi subsp. *sieberi*	x					
	Cheilanthes tenuifolia	x					
	Cheilanthes sp.					x	
Rhamnaceae	*Ventilago viminalis*	x					
Rubiaceae	*Dolichocarpa crouchiana*	x				x	x
	Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)	x			x	x	x
	Pomax rupestris	x					
	Scleromitrion galioides	x					
	Synaptantha tillaeacea	x					
	Synaptantha tillaeacea subsp. *tillaeacea*	x				x	
	Rubiaceae sp.	x					
Ruppiaceae	*Ruppia polycarpa*	x					
Santalaceae	*Santalum lanceolatum*	x					
Sapindaceae	*Diplopeltis eriocarpa*	x					
	Dodonaea coriacea	x				x	x
	Dodonaea petiolaris	x					
Scrophulariaceae	*Eremophila forrestii* subsp. *forrestii*	x					x
	Eremophila fraseri	x					
	Eremophila fraseri subsp. *fraseri*	x					
	Eremophila fraseri subsp. *parva*	x				x	
	Eremophila latrobei subsp. *filiformis*	x					
	Eremophila longifolia	x					x

APPENDIX B: VASCULAR PLANT SPECIES RECORDED IN THE DESKTOP AND FIELD SURVEY, YINDJIBARNDI RENEWABLE ENERGY PROJECT, 2024

Notes: * denotes introduced species; T denotes threatened flora and P1-P4 denote priority flora species (DBCA 2024d, WAH 1998-)

Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Scrophulariaceae (continued)	*Eremophila maculata* subsp. *brevifolia*	x					
Solanaceae	* *Datura leichhardtii* subsp. *leichhardtii*	x					
	Nicotiana benthamiana	x					
	Nicotiana occidentalis	x					x
	Nicotiana occidentalis subsp. *obliqua*	x					
	Nicotiana occidentalis subsp. *occidentalis*	x					
	Solanum albostellatum (P3)	x			x		
	Solanum cleistogamum						x
	Solanum diversiflorum (Garlumba)	x				x	x
	Solanum elatius	x					
	Solanum gabrielae	x					
	Solanum horridum	x					
	Solanum lasiophyllum	x					x
	Solanum morrisonii	x					
	Solanum phlomoides	x				x	
	Solanum sp. Red Hill (S. van Leeuwen et al. PBS 5415) (P3)	x			x		
	Solanum sp.	x				x	x
Stylidiaceae	*Stylidium desertorum*	x					
	Stylidium fluminense	x				x	x
	Stylidium spathulatum	x					
Surianaceae	*Stylobasium spathulatum*	x					
Thymelaeaceae	*Pimelea ammocharis*	x					
	Pimelea forrestiana	x					
Typhaceae	*Typha domingensis*	x				x	x
Verbenaceae	* *Phyla nodiflora* subsp. *nodiflora*	x					
Violaceae	*Afrohybanthus aurantiacus*	x				x	x
Zygophyllaceae	*Roepera iodocarpa*	x					
	Tribulus cistoides	x					
	Tribulus hirsutus	x					x
	Tribulus macrocarpus	x					

APPENDIX B: VASCULAR PLANT SPECIES RECORDED IN THE DESKTOP AND FIELD SURVEY, YINDJIBARNDI RENEWABLE ENERGY PROJECT, 2024

Notes: * denotes introduced species; T denotes threatened flora and P1-P4 denote priority flora species (DBCA 2024d, WAH 1998-)

Family	Species	NMap (DBCA 2007-)	DCCEEW (2024c)	TPFL	WAH (1998-)	Mattiske (2023)	This Survey
Zygophyllaceae (continued)	*Tribulus occidentalis*	x					
	Tribulus platypterus	x					x
	Tribulus suberosus (Gawiwarnda)	x					x
	* *Tribulus terrestris*	x					
	Tribulus sp.	x					x

APPENDIX C: ASSESSMENT OF CONSERVATION SIGNIFICANT TAXA POTENTIALLY PRESENT WITHIN THE SURVEY AREA

Refer to Appendix A for BC Act / DBCA Priority List and EPBC Act conservation code definitions. IBRA Distribution: CAR – Carnarvon, CKM – Central Kimberley, DPL - Dampierland, GAS – Gascoyne, GSD - Great Sandy Desert, NKM - Northern Kimberley, OVP - Ord Victoria Plain, PIL - Pilbara, TAN – Tanami, VBP - Victoria Bonaparte.

TAXON	FAMILY	CONSERVATION STATUS		DESCRIPTION AND HABITAT	POTENTIAL TO OCCUR IN SURVEY AREA
		BC ACT / DBCA PRIOIRTY LIST	EPBC ACT		
Thryptomene wittweri	Myrtaceae	T	V	Habit: Spreading or rounded shrub, 0.5-1.5(-2.1) m high. Habitat: Skeletal red stony soils. Breakaways, stony creek beds. Flowering period (indicated in green): J F M **A** M J **J** **A** S O N D IBRA Distribution: GAS, LSD, PIL Florabase records: 8	Unlikely Suitable habitat for this taxon is unlikely to occur within the study areas. The nearest record of this taxon exists about 180 km southeast of the Survey Area at Mt Meharry.
Tephrosia lithosperma	Fabaceae	P1	-	Habit: Spreading woody herb or subshrub, possibly annual, to 0.5 m high Habitat: Stony and rocky slopes of variable geology, clay soils beneath slopes, post fire vegetation. Flowering period (indicated in green): J F **M** **A** **M** **J** **J** **A** **S** **O** **N** D IBRA Distribution: PIL Florabase records: 1	Potential Suitable habitat for this taxon has potential to occur within the study areas. The one record of this taxon from WA is located approximately 40 km southeast of the Survey Area. Given the poorly known ecology of this taxon, and that it is a fire recovery taxon, this taxon may occur within the Survey Area.
Cladium procerum	Cyperaceae	P2	-	Habit: Densely tufted perennial, grass-like or herb (sedge), 2 m high. Habitat: Permanent pools. Flowering period (indicated in green): J F M A M J J A S O **N** D IBRA Distribution: PIL Florabase records: 15	Potential Suitable habitat for this taxon may to occur within the Survey Area. Records of this taxon exist within 20 km of the Survey Area.
Ipomoea racemigera	Convolvulaceae	P2	-	Habit: Creeping annual, herb or climber. Fl. white. Habitat: Sandy soils along watercourses. Flowering period (indicated in green): J F **M** **A** **M** **J** **J** **A** S O N D IBRA Distribution: GAS, OVP, PIL Florabase records: 18	Potential Suitable habitat for this taxon may occur within the Survey Area. Records of this taxon exist within 30 km of the Survey Area.

APPENDIX C: ASSESSMENT OF CONSERVATION SIGNIFICANT TAXA POTENTIALLY PRESENT WITHIN THE SURVEY AREA

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TAXON	FAMILY	CONSERVATION STATUS		DESCRIPTION AND HABITAT	POTENTIAL TO OCCUR IN SURVEY AREA
		BC ACT / DBCA PRIOIRTY LIST	EPBC ACT		
Neptunia longipila	Fabaceae	P2	-	Habit: Perennial shrub, stems prostrate Habitat: Reddish-brown to orange-brown cracking clay, or red to brown gravelly loam on flats Flowering period (indicated in green): J F **M A M J J A S** O N D IBRA Distribution: PIL Florabase records: 16	Likely Suitable habitat for this taxon is likely to occur within the Survey Area. Records of this taxon exist within 15 km of the Survey Area.
Paspalidium retiglume	Poaceae	P2	-	Habit: Tufted annual, grass-like or herb, 0.1-0.5 m high Habitat: Arid and semi-arid low woodlands, arid tussock grasslands, and arid hummock grasslands. Flowering period (indicated in green): J F **M A M J J A S** O N D IBRA Distribution: CKM, PIL Florabase records: 12	Potential Suitable habitat for this taxon is likely to occur within the study areas. Records of this taxon exist within 10 km of the Survey Area.
Pentalepis trichodesmoides subsp. *hispida*	Asteraceae	P2	-	Habit: Shrub to 1 m high. Habitat: Hummock grasslands, on summits and slopes of low hills, on basaltic soils Flowering period (indicated in green): J F M A M J J **A S** O N D IBRA Distribution: PIL Florabase records: 14	Recorded One record of this taxon exists within the Survey Area (Mattiske Consulting 2023).
Teucrium pilbaranum	Lamiaceae	P2	-	Habit: Upright shrub, 0.2 m high. Fl. white. Habitat: Clay. Crab hole plain in a river floodplain, margin of calcrete table. Flowering period (indicated in green): J F M A **M J J A S** O N D IBRA Distribution: PIL Florabase records: 21	Unlikely Suitable habitat for this taxon is unlikely to occur within the Survey Area. Records of this taxon exist within 20 km of the Survey Area.

APPENDIX C: ASSESSMENT OF CONSERVATION SIGNIFICANT TAXA POTENTIALLY PRESENT WITHIN THE SURVEY AREA

Refer to Appendix A for BC Act / DBCA Priority List and EPBC Act conservation code definitions. IBRA Distribution: CAR – Carnarvon, CKM – Central Kimberley, DPL - Dampierland, GAS – Gascoyne, GSD - Great Sandy Desert, NKM - Northern Kimberley, OVP - Ord Victoria Plain, PIL - Pilbara, TAN – Tanami, VBP - Victoria Bonaparte.

TAXON	FAMILY	CONSERVATION STATUS		DESCRIPTION AND HABITAT	POTENTIAL TO OCCUR IN SURVEY AREA
		BC ACT / DBCA PRIOIRTY LIST	EPBC ACT		
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023)	Aizoaceae	P2	-	Habit: Prostrate herb Habitat: Stony flats Flowering period (indicated in green): (Unknown) J F M A M J J A S O N D IBRA Distribution: PIL Florabase records: 9	Likely Suitable habitat for this taxon is likely to occur within the Survey Area. Records of this taxon exist within 4 km of the Survey Area.
Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479)	Rubiaceae	P3	-	Habit: Annual herb to 15 cm high Habitat: Open (cracking) clay flats Flowering period (indicated in green): J F M A M J J A S O N D IBRA Distribution: PIL Florabase records: 38	Likely Suitable habitat for this taxon is likely to occur within the Survey Area. Records of this taxon exist within 4 km of the Survey Area.
Eragrostis crateriformis	Poaceae	P3	-	Habit: Annual grass 0.17-0.42 m high. Habitat: Clayey loam or clay. Creek banks, depressions. Flowering period (indicated in green): J F M A M J J A S O N D IBRA Distribution: CAR, GSD, PIL, TAN Florabase records: 53	Unlikely Suitable habitat for this taxon is unlikely to occur within the Survey Area. Records of this taxon exist within 20 km of the Survey Area.
Euphorbia australis var. *glabra*	Euphorbiaceae	P3	-	Habit: Herb Habitat: Alluvium, near rock pools. Flowering period (indicated in green): (Unknown) J F M A M J J A S O N D Soils: Insufficient information IBRA Distribution: PIL Florabase records: 23	Unlikely Suitable habitat for this taxon is unlikely to occur within the study areas. Records of this taxon exist within 25 km of the Survey Area.

Refer to Appendix A for BC Act / DBCA Priority List and EPBC Act conservation code definitions. IBRA Distribution: CAR – Carnarvon, CKM – Central Kimberley, DPL - Dampierland, GAS – Gascoyne, GSD - Great Sandy Desert, NKM - Northern Kimberley, OVP - Ord Victoria Plain, PIL - Pilbara, TAN – Tanami, VBP - Victoria Bonaparte.

TAXON	FAMILY	CONSERVATION STATUS		DESCRIPTION AND HABITAT	POTENTIAL TO OCCUR IN SURVEY AREA
		BC ACT / DBCA PRIOIRTY LIST	EPBC ACT		
Euphorbia inappendiculata var. *inappendiculata*	Euphorbiaceae	P3	-	Habit: Prostrate/low herb to 10 cm high Habitat: Cracking clays, creekbeds (unconfirmed) Flowering period (indicated in green): (Unknown) J F M A M J J A S O N D IBRA Distribution: GAS, PIL Florabase records: 14	Likely Suitable habitat for this taxon is likely to occur within the Survey Area. Records of this taxon exist within 20 km of the Survey Area.
Euphorbia stevenii	Euphorbiaceae	P3	-	Habit: Somewhat succulent perennial, herb to 0.5 m high Habitat: Clay, sandy soils Flowering period (indicated in green): (Unknown) J F M A M J J A S O N D IBRA Distribution: PIL, VBP Florabase records: 17	Potential Suitable habitat for this taxon may occur within the Survey Area. Records of this taxon exist within 20 km of the Survey Area.
Fimbristylis sieberiana	Cyperaceae	P3	-	Habit: Shortly rhizomatous, tufted perennial, grass-like or herb (sedge), 0.25-0.6 m high Habitat: Mud, skeletal soil pockets. Pool edges, sandstone cliffs. Flowering period (indicated in green): J F M A **M J** J A S O N D IBRA Distribution: CKM, DPL, GSD, NKM, OVP, PIL, VBP Florabase records: 29	Unlikely Suitable habitat for this taxon is unlikely to occur within the Survey Area. Records of this taxon exist within 20 km of the Survey Area.
Owenia acidula	Meliaceae	P3	-	Habit: Tree, 3-8 m high Habitat: Plains, in grasslands of various types on various substrates, or thin woodlands. Flowering period (indicated in green): J F M A M J J A S **O N** D IBRA Distribution: CAR, OVP, PIL Florabase records: 14	Potential Suitable habitat for this taxon may occur within the Survey Area. Records of this taxon exist within 20 km of the Survey Area

Refer to Appendix A for BC Act / DBCA Priority List and EPBC Act conservation code definitions. IBRA Distribution: CAR – Carnarvon, CKM – Central Kimberley, DPL - Dampierland, GAS – Gascoyne, GSD - Great Sandy Desert, NKM - Northern Kimberley, OVP - Ord Victoria Plain, PIL - Pilbara, TAN – Tanami, VBP - Victoria Bonaparte.

TAXON	FAMILY	CONSERVATION STATUS		DESCRIPTION AND HABITAT	POTENTIAL TO OCCUR IN SURVEY AREA
		BC ACT / DBCA PRIOIRTY LIST	EPBC ACT		
Solanum albostellatum	Solanaceae	P3	-	Habit: Open, resprouting, clonal, suffruticose, sub-shrub to 40 cm high Habitat: Cracking clay soils on open floodplains in open scrubland over grasses. Flowering period (indicated in green): J F **M** **A** **M** J J A S O N D IBRA Distribution: DPL, PIL Florabase records: 14	Potential Suitable habitat for this taxon may occur within the Survey Area. Records of this taxon exist within 10 km of the Survey Area
Solanum sp. Red Hill (S. van Leeuwen et al. PBS 5415)	Solanaceae	P3	-	Habit: Perennial herb to 0.3 m high Habitat: Steep slopes and high summits Flowering period (indicated in green): (Unknown) J F M A M J J A S O N D IBRA Distribution: PIL Florabase records: 19	Unlikely Suitable habitat for this taxon is unlikely to occur within the Survey Area. The nearest record of this taxon is 40 km southwest of the Survey Area.
Swainsona thompsoniana	Fabaceae	P3	-	Habit: Prostrate, annual herb, to 10 cm high Habitat: Open flood plains on heavy clay soils Flowering period (indicated in green): J F M A M J J **A** **S** O N D IBRA Distribution: PIL Florabase records: 28	Potential Suitable habitat for this taxon may occur within the Survey Area. Records of this taxon exist within 10 km of the Survey Area.
Themeda sp. Hamersley Station (M.E. Trudgen 11431)	Poaceae	P3	-	Habit: Tussocky perennial, grass-like or herb, 0.9-1.8 m high. Habitat: Red clay. Clay pan, grass plain Flowering period (indicated in green): J F M A M J J **A** S O N D IBRA Distribution: PIL Florabase records: 60	Potential Suitable habitat for this taxon may occur within the Survey Area. Records of this taxon exist within 20 km of the Survey Area

APPENDIX C: ASSESSMENT OF CONSERVATION SIGNIFICANT TAXA POTENTIALLY PRESENT WITHIN THE SURVEY AREA

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TAXON	FAMILY	CONSERVATION STATUS		DESCRIPTION AND HABITAT	POTENTIAL TO OCCUR IN SURVEY AREA
		BC ACT / DBCA PRIOIRTY LIST	EPBC ACT		
Triodia basitricha	Poaceae	P3	-	Habit: Compact, soft, non-resinous, tussock grass to 40 cm high Habitat: Slopes or crests of rocky hills Flowering period (indicated in green): **J F M** A M J J A S O N D IBRA Distribution: GAS, PIL Florabase records: 40	Potential Suitable habitat for this taxon may occur within the Survey Area. Records of this taxon exist within 40 km of the Survey Area.
Triodia pisoliticola	Poaceae	P3	-	Habit: Compact tussock grass with lax to sprawling leaves, 0.4-0.9 m high Habitat: Tops and edges of mesas. Flowering period (indicated in green): J **F M A M J J A** S O N D IBRA Distribution: PIL Florabase records: 64	Potential Suitable habitat for this taxon may occur within the Survey Area. Records of this taxon exist within 40 km of the Survey Area.
Vigna triodiophila	Fabaceae	P3	-	Habit: Fine-stemmed prostrate or scrambling vine to 1 m long Habitat: Basalt rockpiles Flowering period (indicated in green): (Unknown) J F M A M J J A S O N D IBRA Distribution: PIL Florabase records: 21	Potential Suitable habitat for this taxon may occur within the Survey Area. Records of this taxon exist within 25 km of the Survey Area.
Livistona alfredii	Arecaceae	P4	-	Habit: Tree-like monocot (palm), to 10 m high. Habitat: Edges of permanent pools. Flowering period (indicated in green): J F M A M **J J A S** O N D IBRA Distribution: CAR, PIL Florabase records: 36	Potential Suitable habitat for this taxon may occur within the Survey Area. Records of this taxon exist within 10 km of the Survey Area.

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TAXON	FAMILY	CONSERVATION STATUS		DESCRIPTION AND HABITAT	POTENTIAL TO OCCUR IN SURVEY AREA
		BC ACT / DBCA PRIOIRTY LIST	EPBC ACT		
Rhynchosia bungarensis	Fabaceae	P4	-	Habit: Compact, prostrate shrub to 0.5 m high. Fl. yellow. Habitat: Pebbly, shingly coarse sand amongst boulders Flowering period (indicated in green): (Unknown) J F M A **M J J A S O N** D IBRA Distribution: CAR, GAS, PIL, TAN Florabase records: 95	Potential Suitable habitat for this taxon may occur within the Survey Area. Records of this taxon exist within 30 km of the Survey Area.

APPENDIX D: SURVEY SITE LOCATIONS ESTABLISHED WITHIN THE SURVEY AREA, 2024

Note: Sites labeled with a Q represent Quadrats. Sites labeled with R represent Relevés.

Site	Coordinates (MGA94 z50)	
	Easting (m)	Northing (m)
Q036	480484	7654162
R037	480296	7654131
R038	480651	7654084
Q039	480553	7654077
Q040	481932	7653705
Q041	491122	7653415
Q042	481991	7653390
Q043	490609	7653356
R044	491315	7653265
Q045	480974	7653059
Q046	493470	7652942
R047	493773	7652861
Q048	481052	7652777
Q049	488492	7652440
Q050	481085	7652370
Q051	487135	7652281
Q052	488272	7652158
Q053	487368	7652061
Q054	486482	7651980
Q055	492018	7651643
Q056	480817	7651639
Q057	493337	7651359
Q058	480908	7651030
Q059	489389	7650995
R060	488866	7650665
Q061	499755	7650017
Q062	484728	7649852
Q063	484667	7649678
Q064	489910	7649577
Q065	484578	7649505
Q066	481153	7649340
Q067	480396	7649109
Q068	492778	7649086
Q069	489298	7649065
Q070	489187	7648960
R071	483168	7648845
Q072	482648	7648730
Q073	492154	7648588
Q074	492388	7648487
R075	492490	7648465
Q076	484239	7648006
Q077	499523	7647991
Q078	484417	7647776
R079	499495	7647749
Q080	487560	7647642

APPENDIX D: SURVEY SITE LOCATIONS ESTABLISHED WITHIN THE SURVEY AREA, 2024

Note: Sites labeled with a Q represent Quadrats. Sites labeled with R represent Relevés.

Site	Coordinates (MGA94 z50)	
	Easting (m)	Northing (m)
Q081	480214	7647557
Q082	484095	7647461
R083	480010	7647251
Q084	485741	7646716
Q085	485679	7646605
Q086	481270	7646147
Q087	480808	7646011
Q088	487733	7645851
Q089	496278	7645827
Q090	498778	7645717
Q091	487658	7645579
Q092	481374	7645575
Q093	490213	7645561
R094	498979	7645548
Q095	489996	7645496
R096	498966	7645493
Q097	494103	7645379
Q098	493701	7645257
Q099	486644	7645212
Q100	484758	7645070
Q101	482575	7644203
Q102	490750	7644086
Q103	496950	7644041
Q104	494093	7644009
Q105	490960	7643939
Q106	482600	7643880
Q107	488043	7643513
Q108	484453	7643496
Q109	497289	7643481
R110	484348	7643440
R111	480122	7643414
Q112	480084	7643236
R113	494824	7642910
Q114	482957	7642432
R115	498515	7642428
Q116	499287	7642348
R117	499030	7642254
Q118	483199	7642237
Q119	482898	7642216
Q120	479917	7642184
Q121	481480	7642138
Q122	480889	7642097
R123	494049	7642034
R124	499543	7642010
Q125	490876	7641862

APPENDIX D: SURVEY SITE LOCATIONS ESTABLISHED WITHIN THE SURVEY AREA, 2024

Note: Sites labeled with a Q represent Quadrats. Sites labeled with R represent Relevés.

Site	Coordinates (MGA94 z50)	
	Easting (m)	Northing (m)
R126	490687	7641803
R127	493741	7641765
Q128	481854	7641710
R129	493517	7641561
Q130	496472	7641524
Q131	491097	7641507
R132	489480	7641471
Q133	480445	7641430
Q134	489420	7641429
Q135	485869	7641381
R136	485609	7641374
Q137	487252	7641368
R138	490542	7641360
R139	485800	7641288
Q140	480752	7641249
Q141	483176	7641175
Q142	479706	7641159
Q143	480889	7641146
Q144	493541	7641096
Q145	481917	7640993
R146	483399	7640959
Q147	479509	7640904
R148	498700	7640862
Q149	483682	7640775
R150	481986	7640682
R151	495847	7640673
Q152	498763	7640658
R153	498533	7640611
Q154	490322	7640410
R155	490213	7640389
Q156	495941	7640384
Q157	488595	7640360
Q158	491842	7640267
R159	491756	7640093
Q160	495743	7639765
Q161	484274	7639606
Q162	486781	7639599
Q163	487070	7639591
Q164	484373	7639512
R165	482739	7639503
Q166	491296	7639427
R167	495829	7639407
R168	498348	7639275
Q169	498168	7639261
Q170	482705	7639239

APPENDIX D: SURVEY SITE LOCATIONS ESTABLISHED WITHIN THE SURVEY AREA, 2024

Note: Sites labeled with a Q represent Quadrats. Sites labeled with R represent Relevés.

Site	Coordinates (MGA94 z50)	
	Easting (m)	Northing (m)
Q171	489140	7639218
Q172	493439	7639125
Q173	484527	7639120
Q174	491685	7639110
R175	493264	7638952
R176	490416	7638952
Q177	495800	7638884
R178	484415	7638786
R179	490011	7638718
R180	488244	7638686
Q181	490184	7638545
Q182	484264	7638462
Q183	490564	7638458
Q184	490475	7638242
Q185	493139	7637728
R186	492662	7637711
R187	495389	7637709
Q188	498032	7637578
Q189	495574	7637531
Q190	498271	7637410
Q191	482779	7637365
Q192	489337	7637338
R193	498456	7637325
Q194	484387	7637312
Q195	483161	7637193
Q196	485993	7636949
R197	484588	7636878
R198	489675	7636864
Q199	483147	7636788
Q200	486268	7636765
Q201	484496	7636755
Q202	486543	7636722
Q203	486581	7636621
Q204	489585	7636547
Q205	499685	7636492
Q206	484110	7636319
Q207	484471	7636312
Q208	499110	7636239
Q209	489306	7636213
R210	498767	7636091
R211	504457	7635719
R212	505569	7635704
Q213	505839	7635657
Q214	495982	7635603
Q215	493219	7635585

APPENDIX D: SURVEY SITE LOCATIONS ESTABLISHED WITHIN THE SURVEY AREA, 2024

Note: Sites labeled with a Q represent Quadrats. Sites labeled with R represent Relevés.

Site	Coordinates (MGA94 z50)	
	Easting (m)	Northing (m)
Q216	504742	7635577
R217	496547	7635562
Q218	503583	7635532
Q219	490910	7635500
Q220	489086	7635485
R221	493187	7635283
R222	498245	7635158
R223	499979	7635027
Q224	500130	7635003
Q225	493037	7634989
R226	489594	7634958
Q227	498841	7634947
R228	500785	7634909
Q229	500635	7634859
Q230	486274	7634713
Q231	489173	7634631
R232	485312	7634382
R233	488672	7634341
Q234	496280	7634232
Q235	485792	7634218
Q236	494338	7634201
Q237	496784	7634022
Q238	492556	7634013
R239	486003	7633953
R240	496748	7633835
Q241	494629	7633814
R242	505565	7633803
Q243	505627	7633623
Q244	505334	7633441
Q245	503866	7633438
Q246	503663	7633400
Q247	492821	7633374
R248	503804	7633317
Q249	480817	7651639

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	Q001	Q002	Q003	Q004	Q005	Q006	Q007	Q008	Q009	Q010	Q011	Q013	Q015	Q016	Q017	Q019	Q020	Q021	Q022	Q023	Q025	Q027	Q028	Q029	Q036	Q039	Q040	Q041	Q042	Q043	Q045	Q046	Q048	Q049	Q050	Q051	Q052
Abutilon lepidum																										x											x
Abutilon sp.																																					
Acacia ampliceps								x									x																				
Acacia ancistrocarpa	x	x		x	x	x			x	x	x		x	x		x		x							x	x					x						x
Acacia arida										x					x														x			x		x			
Acacia bivenosa		x		x	x		x	x		x	x				x	x	x	x				x		x	x					x		x	x			x
Acacia colei var. *colei*																																					
Acacia coriacea subsp. *pendens*			x																			x										x				
Acacia inaequilatera	x			x	x	x			x	x								x					x	x		x		x		x		x				
Acacia ligulata																						x															
Acacia maitlandii									x	x		x	x	x																							
Acacia pyrifolia var. *morrisonii*																			x	x																	
Acacia pyrifolia var. *pyrifolia*		x	x		x	x	x	x		x	x	x		x	x	x	x	x							x	x		x		x	x	x	x		x	x	x
Acacia sibina																																					
Acacia trachycarpa			x					x									x															x				
Acacia tumida																																					
Acacia tumida var. *pilbarensis*												x				x		x	x	x														x			x
Acacia xiphophylla																						x															
Acacia sp.																																					
* *Aerva javanica*																	x																				
Afrohybanthus aurantiacus			x					x																							x		x				
Alternanthera nana																																		x			
Alternanthera nodiflora																																					
Alternanthera sp.																																					
Alysicarpus muelleri																																					
Amaranthus undulatus																																	x	x			
Ammannia baccifera																																					
Amyema sanguinea var. *sanguinea*							x																														
Aristida burbidgeae																																					
Aristida contorta				x		x			x		x	x	x							x					x			x		x		x					
Aristida holathera																																					
Aristida holathera var. *holathera*																																					
Aristida latifolia																					x		x														

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

	Species	Q001	Q002	Q003	Q004	Q005	Q006	Q007	Q008	Q009	Q010	Q011	Q013	Q015	Q016	Q017	Q019	Q020	Q021	Q022	Q023	Q025	Q027	Q028	Q029	Q036	Q039	Q040	Q041	Q042	Q043	Q045	Q046	Q048	Q049	Q050	Q051	Q052
	Arivela viscosa			x					x									x											x	x	x		x	x	x	x	x	x
	Asteraceae sp.			x					x				x	x	x	x		x				x		x					x			x						
	Astrebla elymoides																																					
	Astrebla pectinata																																					
	Atriplex sp.																						x															
	Austrobryonia pilbarensis																																					
	Bergia trimera																																					
	Boerhavia burbidgeana																																					
	Boerhavia gardneri																													x			x					
	Boerhavia sp.				x	x										x		x			x	x		x	x				x		x					x		
	Bonamia erecta																												x		x							
	Bonamia linearis																																					x
	Bonamia media																																x				x	
	Bonamia pannosa																														x							x
	Boraginaceae sp.			x																																		
	Bothriochloa ewartiana																																					
	Brachychiton acuminatus												x																									
	Bulbostylis barbata																															x	x					
	Cajanus cinereus																																					
	Calandrinia ptychosperma																																					
	Calocephalus ?beardii																												x									
	Cassytha filiformis																																					
	Cassytha sp.			x				x	x					x				x		x																		
*	*Cenchrus ciliaris*			x					x									x					x		x													
	Centipeda minima																																					
	Cheilanthes sp.												x																									
	Chrysopogon fallax																							x														
	Clerodendrum floribundum var. *angustifolium*																																					
	Clerodendrum tomentosum var. *lanceolatum*																																					
	Commelina ensifolia																																					
	Convolvulaceae sp.			x				x																														
	Corchorus lasiocarpus subsp. *parvus*																																					
	Corchorus ?lasiocarpus						x			x				x	x		x		x																			

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	Q001	Q002	Q003	Q004	Q005	Q006	Q007	Q008	Q009	Q010	Q011	Q013	Q015	Q016	Q017	Q019	Q020	Q021	Q022	Q023	Q025	Q027	Q028	Q029	Q036	Q039	Q040	Q041	Q042	Q043	Q045	Q046	Q048	Q049	Q050	Q051	Q052
Corchorus sidoides subsp. *sidoides*																										x	x		x		x				x		x
Corchorus walcottii																									x	x						x	x	x			x
Corchorus sp.	x			x				x	x								x																				
Corymbia hamersleyana		x										x				x			x	x				x		x	x	x			x				x		
Crotalaria medicaginea																																					
Crotalaria medicaginea var. *neglecta*																																x					x
Crotalaria novae-hollandiae subsp. *novae-hollandiae*																																					
Crotalaria sp.																																					
Cucumis melo																																					
Cucumis variabilis																																					
Cucumis sp.																																					
Cullen cinereum																																					
Cullen leucanthum																																					
Cullen leucochaites																																				x	
Cullen sp.																																					
Cymbopogon ambiguus												x							x																		
Cymbopogon obtectus																																					
Cymbopogon sp.																																					
Cynanchum floribundum																																					
Cynanchum viminale subsp. *australe*																																					
Cynanchum sp.																																					
Cynodon convergens																					x																
* *Cynodon dactylon*																																					
Cyperaceae sp.				x			x	x	x	x			x							x																	
Cyperus iria																																					
Cyperus vaginatus			x				x	x									x																x	x			x
Dampiera candicans												x																									
Dichanthium sericeum subsp. *humilius*																																					
Dichrostachys spicata																																					
Dicliptera armata																																					
Diplachne fusca subsp. *fusca*																																		x			
Dodonaea coriacea																		x																			
Dolichocarpa crouchiana																																			x		

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	Q001	Q002	Q003	Q004	Q005	Q006	Q007	Q008	Q009	Q010	Q011	Q013	Q015	Q016	Q017	Q019	Q020	Q021	Q022	Q023	Q025	Q027	Q028	Q029	Q036	Q039	Q040	Q041	Q042	Q043	Q045	Q046	Q048	Q049	Q050	Q051	Q052
Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)																																					
Dysphania kalpari																									x		x	x	x	x	x	x		x		x	x
Dysphania sp.																																					
Ehretia saligna var. *saligna*																																					
Eleocharis geniculata																																					
Enchylaena tomentosa var. *tomentosa*																						x															
Enneapogon caerulescens																																x				x	
Enneapogon lindleyanus																																	x				
Enneapogon ?lindleyanus																																					
Enneapogon polyphyllus																																					
Eragrostis cumingii																																					
Eragrostis elongata								x																													
Eragrostis tenellula																																					
Eragrostis sp.							x					x																									
Eremophila forrestii subsp. *forrestii*																																					
Eremophila longifolia																																					
Eriachne benthamii																																					
Eriachne ciliata	x								x	x	x	x	x					x																			
Eriachne mucronata			x					x																									x				
Eriachne pulchella							x							x	x																						
Eriachne pulchella subsp. *dominii*																														x	x	x			x		
Eriachne sp.							x										x																				
?Eriachne sp.																																					
Erythrina vespertilio																																					
Eucalyptus camaldulensis																																					
Eucalyptus ?camaldulensis																																					
Eucalyptus leucophloia subsp. *leucophloia*																											x										
Eucalyptus victrix			x				x	x																	x								x	x		x	
Eucalyptus sp.			x																																		
Eulalia aurea			x				x	x									x						x											x			x
Euphorbia australis var. *subtomentosa*																										x											
Euphorbia boophthona																																					
Euphorbia careyi																															x	x	x				

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	Q001	Q002	Q003	Q004	Q005	Q006	Q007	Q008	Q009	Q010	Q011	Q013	Q015	Q016	Q017	Q019	Q020	Q021	Q022	Q023	Q025	Q027	Q028	Q029	Q036	Q039	Q040	Q041	Q042	Q043	Q045	Q046	Q048	Q049	Q050	Q051	Q052
Euphorbia coghlanii																																	x				x
Euphorbia inappendiculata var. *inappendiculata* (P3)																																					
Euphorbia sp. 1																	x																				
Euphorbia sp. 2																	x																				
Euphorbia stevenii (P3)																																					
Euphorbia tannensis subsp. *eremophila*																												x				x					
Euphorbia trigonosperma																										x				x				x			
Euphorbia vaccaria var. *vaccaria*																												x			x			x	x		x
Euphorbia sp.				x							x																										
Euploca cunninghamii											x																				x						
Euploca ovalifolia																																					
Euploca skeleton																																					
Evolvulus alsinoides																																					
Evolvulus alsinoides var. *alsinoides*																																					
Evolvulus alsinoides var. *decumbens*																																					
Evolvulus alsinoides var. *villosicalyx*				x																																	
Evolvulus sp.																																					
Fabaceae sp.			x					x										x			x		x														
Ficus aculeata var. *indecora*																																					
Ficus ?*brachypoda*																																					
Fimbristylis dichotoma																																					
* *Flaveria trinervia*																																					
Flueggea virosa subsp. *melanthesoides*																																	x				
Glinus lotoides																																					
Gomphrena canescens																																					
Gomphrena cunninghamii								x				x	x																								
?*Gomphrena* sp.	x									x																											
Goodenia lamprosperma																											x						x	x			x
Goodenia ?*lamprosperma*			x																																		
Goodenia microptera																												x			x	x					
Goodenia muelleriana																																					
Goodenia scaevolina																	x													x							
Goodenia stobbsiana													x							x																	

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	Q001	Q002	Q003	Q004	Q005	Q006	Q007	Q008	Q009	Q010	Q011	Q013	Q015	Q016	Q017	Q019	Q020	Q021	Q022	Q023	Q025	Q027	Q028	Q029	Q036	Q039	Q040	Q041	Q042	Q043	Q045	Q046	Q048	Q049	Q050	Q051	Q052
Goodenia sp.											x																										
Goodeniaceae sp.		x			x												x																				
Gossypium australe																x			x																		
Gossypium robinsonii																																		x			
Gossypium sp.																																					
Grevillea pyramidalis subsp. *leucadendron*		x		x	x	x		x			x				x				x						x											x
Grevillea wickhamii		x			x				x	x		x			x	x		x								x				x		x		x		
Grevillea sp.																																					
?*Grevillea* sp.																	x																				
Hakea chordophylla				x																								x								
Hakea ?*chordophylla*																																					
Hakea lorea		x							x				x		x						x																
Hakea ?*lorea*																									x												
Heliotropium crispatum																																					
Heteropogon contortus																																					
Hibiscus burtonii																													x					x			
Hibiscus sturtii var. *campylochlamys*																										x					x						
Hibiscus verdcourtii																																					
Indigastrum parviflorum																																x					
Indigofera colutea																																x					
Indigofera linifolia								x				x				x								x			x	x			x		x		x		x
Indigofera monophylla					x	x			x		x		x		x		x	x								x			x	x	x	x			x	x	x
Indigofera rugosa																																				x	
Indigofera trita subsp. *trita*																																					
Indigofera sp.											x				x	x																					
Ipomoea costata																																					
Ipomoea lonchophylla																																					
Ipomoea muelleri																																		x			
Ipomoea sp.																																					
Iseilema macrantherum																																					
Iseilema ?*vaginiflorum*	x																				x																
Iseilema sp.																																					
Isotropis atropurpurea																																					

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Species	Q001	Q002	Q003	Q004	Q005	Q006	Q007	Q008	Q009	Q010	Q011	Q013	Q015	Q016	Q017	Q019	Q020	Q021	Q022	Q023	Q025	Q027	Q028	Q029	Q036	Q039	Q040	Q041	Q042	Q043	Q045	Q046	Q048	Q049	Q050	Q051	Q052
Ixiochlamys cuneifolia																								x								x					
Jasminum didymum subsp. *lineare*																																					
Kirganelia baccata																																					
Lobelia arnhemiaca							x																											x			
Lotus australis																																					
Lotus cruentus																																					
Ludwigia perennis																																					
Malvaceae sp.										x													x														
* *Malvastrum americanum*																																					
Marsilea hirsuta																																		x			
Melaleuca argentea																																					
Melaleuca bracteata																																					
Melaleuca glomerata			x				x	x																								x					
Melaleuca linophylla			x				x	x									x															x	x	x			x
Melhania oblongifolia																											x										
* *Melochia pyramidata*																																					
Nellica maderaspatensis			x														x				x																
Neptunia longipila (P2)																																					
Neurachne muelleri																																					
Nicotiana occidentalis																																					
Notoleptopus decaisnei																																					
Panicum decompositum																	x						x														
Panicum sp.			x				x																														
Paspalidium basicladum																														x			x				x
Paspalidium clementii																																					
Paspalidium tabulatum																																					
Paspalidium sp.																																					
Pentalepis trichodesmoides subsp. *hispida* (P2)																																					
Peplidium sp. E Evol. Fl. Fauna Arid Aust. (A.S. Weston 12768)																																					
Pluchea rubelliflora																																		x			
Pluchea sp.			x				x	x									x																				
Plumbago zeylanica																																					
Poaceae sp.				x						x									x	x		x									x					

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Species	Q001	Q002	Q003	Q004	Q005	Q006	Q007	Q008	Q009	Q010	Q011	Q013	Q015	Q016	Q017	Q019	Q020	Q021	Q022	Q023	Q025	Q027	Q028	Q029	Q036	Q039	Q040	Q041	Q042	Q043	Q045	Q046	Q048	Q049	Q050	Q051	Q052
Polycarpaea corymbosa																																					
Polycarpaea holtzei	x					x			x	x	x	x			x			x										x		x		x					
Polycarpaea longiflora												x																		x			x				
Polycarpaea sp.	x			x					x	x			x							x																	
Polymeria ambigua								x			x						x																	x			
Polymeria calycina																															x		x		x		x
Polymeria mollis																																					
Portulaca filifolia																																					
Portulaca oleracea																																					
Potamogeton tepperi																																					
Potamogeton ?tepperi																																					
Pterocaulon sphacelatum																																					
Pterocaulon sphaeranthoides			x	x				x		x							x									x											
Ptilotus aervoides																												x									
Ptilotus astrolasius	x	x		x		x			x				x			x																					
Ptilotus auriculifolius																									x	x		x				x				x	
Ptilotus calostachyus													x	x											x												
Ptilotus carinatus																																					
Ptilotus clementii																																					
Ptilotus exaltatus																						x								x				x		x	x
Ptilotus gaudichaudii																																				x	
Ptilotus gomphrenoides																																					
Ptilotus incanus																																					
Ptilotus obovatus																															x			x			
Ptilotus polystachyus																														x					x		
Ptilotus rotundifolius																																					
Ptilotus schwartzii																														x							
Ptilotus sp.		x																x																			
Rhagodia eremaea																																					
Rhodanthe margarethae																																					
Rhynchosia bungarensis (P4)																																					
Rhynchosia minima																							x														
Rhynchosia ?minima																					x																

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

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Species	Q001	Q002	Q003	Q004	Q005	Q006	Q007	Q008	Q009	Q010	Q011	Q013	Q015	Q016	Q017	Q019	Q020	Q021	Q022	Q023	Q025	Q027	Q028	Q029	Q036	Q039	Q040	Q041	Q042	Q043	Q045	Q046	Q048	Q049	Q050	Q051	Q052
Rostellularia adscendens var. *clementii*																																					
Salsola australis	x																					x		x													
Scaevola spinescens																																					
Schenkia sp.							x																														
Schoenoplectus subulatus																																					
Schoenus falcatus																																					
Sclerolaena gardneri																																					
Senna artemisioides																																					
Senna artemisioides subsp. *helmsii*																						x	x		x							x					
Senna artemisioides subsp. *oligophylla*	x								x									x																			
Senna glutinosa subsp. *glutinosa*				x	x				x					x	x	x		x	x	x				x	x	x									x		
Senna glutinosa subsp. *pruinosa*																									x	x											
Senna notabilis																										x											
Senna ?*notabilis*												x									x																
Seringia nephrosperma																																					
Sesbania cannabina							x																											x			
Sesbania formosa																	x																				
* *Setaria verticillata*																																		x			
Sida ?*fibulifera*																					x																
Sida echinocarpa																									x												
Sida rohlenae subsp. *rohlenae*																																		x			
Sida trichopoda																																					
Sida sp. Articulation below (A.A. Mitchell PRP 1605)																																					
Sida sp. Pilbara (A.A. Mitchell PRP 1543)																									x												
Sida sp.					x						x				x		x	x																			
Solanum cleistogamum																																x		x			
Solanum diversiflorum																	x													x		x		x			x
Solanum lasiophyllum																																					
Solanum phlomoides									x																												
Solanum sp.																																					
* *Sonchus oleraceus*																																					
Sporobolus actinocladus																																					
Sporobolus australasicus				x				x														x															

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Sporobolus sp.																																					
Stemodia grossa			x				x	x																			x		x					x			x
Stemodia kingii																																					
Stemodia sp.																																					
Streptoglossa bubakii																																					
Streptoglossa decurrens																																					
Streptoglossa sp.				x		x					x				x		x																				
Stylidium fluminense																																					
Swainsona formosa																																	x		x		
Swainsona stenodonta																												x							x		
Synaptantha tillaeacea var. *tillaeacea*										x																											
Tephrosia rosea var. *clementii*			x					x		x					x		x															x	x				x
Tephrosia supina																																					
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)																																					
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)																																					
Tephrosia sp. clay soils (S. van Leeuwen et al. PBS 0273)																																					
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)																																x					
Tephrosia sp.							x																												x		
Terminalia circumalata							x					x																					x				
Themeda triandra																x			x																		
Tinospora smilacina																										x											
Trachymene oleracea subsp. *oleracea*																												x				x	x	x			
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)																												x									
Tribulus hirsutus																												x		x		x		x	x	x	x
Tribulus platypterus																																					
Tribulus suberosus													x			x														x				x			
Tribulus sp.																													x	x					x		
Trichodesma zeylanicum var. *zeylanicum*																x												x		x		x			x		
Trigastrotheca molluginea						x					x							x											x	x	x				x		x
Triodia angusta																	x																				
Triodia brizoides																				x																	
Triodia epactia	x	x	x	x		x	x		x	x	x	x	x	x	x	x	x	x																			
Triodia wiseana					x				x	x			x		x	x			x	x		x	x	x	x		x	x	x	x	x				x	x	

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

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Triodia ?wiseana																										x	x				x		x				
Triodia sp.								x																								x					
Triumfetta appendiculata																																			x		
Triumfetta clementii																																x					
Triumfetta maconochieana																																					
Triumfetta propinqua																															x						
Triumfetta sp.					x				x		x	x	x																								
Typha domingensis																																					
* *Vachellia farnesiana*																																					
Vallisneria annua																																					
Vigna lanceolata var. *lanceolata*																																					
Vigna sp.																																					
Waltheria indica																																					

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Species	Q053	Q054	Q055	Q056	Q057	Q058	Q060	Q061	Q062	Q063	Q064	Q065	Q066	Q067	Q068	Q069	Q071	Q072	Q073	Q075	Q076	Q077	Q079	Q080	Q081	Q083	Q084	Q085	Q086	Q087	Q088	Q089	Q090	Q092	Q094	Q096	Q097
Abutilon lepidum				x																																	x
Abutilon sp.																																					
Acacia ampliceps																																					
Acacia ancistrocarpa				x										x								x															
Acacia arida					x									x																				x			
Acacia bivenosa																	x																				
Acacia colei var. *colei*																																					
Acacia coriacea subsp. *pendens*					x						x				x																	x		x		x	
Acacia inaequilatera																				x					x			x				x		x			
Acacia ligulata																																					
Acacia maitlandii						x	x																								x						
Acacia pyrifolia var. *morrisonii*																																					
Acacia pyrifolia var. *pyrifolia*		x	x		x							x	x				x				x	x			x			x					x				
Acacia sibina																																					
Acacia trachycarpa																						x											x				
Acacia tumida						x			x				x																				x				
Acacia tumida var. *pilbarensis*		x					x																														
Acacia xiphophylla																																					
Acacia sp.		x																																			
* *Aerva javanica*																																					
Afrohybanthus aurantiacus							x															x															x
Alternanthera nana																																					
Alternanthera nodiflora																																					
Alternanthera sp.																																					
Alysicarpus muelleri												x																									
Amaranthus undulatus																																					
Ammannia baccifera																																					
Amyema sanguinea var. *sanguinea*																																					
Aristida burbidgeae																																					
Aristida contorta	x		x				x					x																									
Aristida holathera																																					
Aristida holathera var. *holathera*		x																																			
Aristida latifolia																												x	x							x	

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Arivela viscosa	x	x	x	x	x		x	x			x	x		x	x	x	x	x	x	x		x		x	x	x	x	x			x	x	x	x	x		x
Asteraceae sp.																																					
Astrebla elymoides																																					
Astrebla pectinata																																					
Atriplex sp.																																					
Austrobryonia pilbarensis																							x														
Bergia trimera																																					
Boerhavia burbidgeana																																					
Boerhavia gardneri	x																x					x										x		x		
Boerhavia sp.			x		x							x		x								x															
Bonamia erecta																																					
Bonamia linearis																																					
Bonamia media		x																									x	x			x		x				
Bonamia pannosa						x						x	x									x		x													
Boraginaceae sp.																																					
Bothriochloa ewartiana																																					
Brachychiton acuminatus																																					
Bulbostylis barbata																											x										
Cajanus cinereus																	x							x						x							
Calandrinia ptychosperma																																					
Calocephalus ?*beardii*																																					
Cassytha filiformis															x																						
Cassytha sp.																																	x				
* *Cenchrus ciliaris*																																					
Centipeda minima																																					
Cheilanthes sp.																																					
Chrysopogon fallax																																					
Clerodendrum floribundum var. *angustifolium*																																					
Clerodendrum tomentosum var. *lanceolatum*																		x																			
Commelina ensifolia																													x								
Convolvulaceae sp.												x											x														
Corchorus lasiocarpus subsp. *parvus*																		x	x					x						x							
Corchorus ?*lasiocarpus*																																					

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Corchorus sidoides subsp. *sidoides*				x										x			x			x	x															
Corchorus walcottii	x	x							x																		x										
Corchorus sp.					x																																
Corymbia hamersleyana		x	x	x		x	x						x	x			x		x						x									x		x
Crotalaria medicaginea																																					
Crotalaria medicaginea var. *neglecta*												x																									
Crotalaria novae-hollandiae subsp. *novae-hollandiae*																																					
Crotalaria sp.																																					
Cucumis melo																																					
Cucumis variabilis																																					
Cucumis sp.							x				x																										
Cullen cinereum																																					
Cullen leucanthum																																					
Cullen leucochaites					x														x		x																x
Cullen sp.					x																																
Cymbopogon ambiguus	x																																x				
Cymbopogon obtectus																																					
Cymbopogon sp.											x																										
Cynanchum floribundum																																					
Cynanchum viminale subsp. *australe*											x																										
Cynanchum sp.												x																									
Cynodon convergens																																					
* *Cynodon dactylon*																																					
Cyperaceae sp.																																					
Cyperus iria												x																									
Cyperus vaginatus	x										x				x		x					x											x		x		
Dampiera candicans						x	x						x											x									x				
Dichanthium sericeum subsp. *humilius*																																					
Dichrostachys spicata																																					
Dicliptera armata																																					
Diplachne fusca subsp. *fusca*				x																		x														
Dodonaea coriacea									x																												
Dolichocarpa crouchiana	x	x	x	x		x	x			x		x	x	x				x	x					x		x	x		x				x			x	x

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Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)																												x									
Dysphania kalpari	x			x			x															x	x		x		x			x		x		x			
Dysphania sp.																						x			x												
Ehretia saligna var. *saligna*																																					
Eleocharis geniculata																																					
Enchylaena tomentosa var. *tomentosa*																																					
Enneapogon caerulescens																																					
Enneapogon lindleyanus																																	x				
Enneapogon ?lindleyanus																																					
Enneapogon polyphyllus																																					
Eragrostis cumingii																																					
Eragrostis elongata																																					
Eragrostis tenellula												x																									
Eragrostis sp.																																					
Eremophila forrestii subsp. *forrestii*																																					
Eremophila longifolia																																					
Eriachne benthamii	x				x				x																												
Eriachne ciliata																																					
Eriachne mucronata							x										x																				x
Eriachne pulchella																																					
Eriachne pulchella subsp. *dominii*	x													x						x							x										
Eriachne sp.																																					
?Eriachne sp.	x																																x				
Erythrina vespertilio																																					
Eucalyptus camaldulensis																																					
Eucalyptus ?camaldulensis																																					
Eucalyptus leucophloia subsp. *leucophloia*																																					
Eucalyptus victrix					x										x							x										x		x		
Eucalyptus sp.																																					
Eulalia aurea																																					
Euphorbia australis var. *subtomentosa*			x														x																		x		
Euphorbia boophthona							x															x															x
Euphorbia careyi							x													x					x												

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Euphorbia coghlanii				x							x																						x				
Euphorbia inappendiculata var. *inappendiculata* (P3)																																					
Euphorbia sp. 1																																					
Euphorbia sp. 2																																					
Euphorbia stevenii (P3)																													x						x		
Euphorbia tannensis subsp. *eremophila*		x											x				x							x		x	x										
Euphorbia trigonosperma	x				x							x					x			x		x			x												
Euphorbia vaccaria var. *vaccaria*												x		x			x					x															
Euphorbia sp.																																					
Euploca cunninghamii	x																																				
Euploca ovalifolia																																					
Euploca skeleton													x																								
Evolvulus alsinoides																																					x
Evolvulus alsinoides var. *alsinoides*																																					
Evolvulus alsinoides var. *decumbens*																																					
Evolvulus alsinoides var. *villosicalyx*																																					
Evolvulus sp.																																					
Fabaceae sp.																	x																				
Ficus aculeata var. *indecora*																																					
Ficus ?brachypoda																																					
Fimbristylis dichotoma																																					
* *Flaveria trinervia*																																					
Flueggea virosa subsp. *melanthesoides*					x						x	x		x	x			x			x												x				
Glinus lotoides																																					
Gomphrena canescens												x																									
Gomphrena cunninghamii	x													x			x																				
?*Gomphrena* sp.																																					
Goodenia lamprosperma			x		x														x			x												x		
Goodenia ?lamprosperma																																					
Goodenia microptera										x		x												x			x										
Goodenia muelleriana																																					
Goodenia scaevolina		x				x	x		x				x							x					x					x						x
Goodenia stobbsiana																																					

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Goodenia sp.																																					
Goodeniaceae sp.																																					
Gossypium australe																																					
Gossypium robinsonii											x																								x		
Gossypium sp.																																					
Grevillea pyramidalis subsp. *leucadendron*		x												x				x			x			x		x				x	x			x		
Grevillea wickhamii		x							x				x				x					x														
Grevillea sp.																																					
?*Grevillea* sp.																																					
Hakea chordophylla			x			x							x																								
Hakea ?*chordophylla*														x				x			x															
Hakea lorea							x																														
Hakea ?*lorea*									x	x																					x						
Heliotropium crispatum																																					
Heteropogon contortus																																					
Hibiscus burtonii																																					
Hibiscus sturtii var. *campylochlamys*			x									x															x									
Hibiscus verdcourtii																								x													
Indigastrum parviflorum																																					
Indigofera colutea												x																									
Indigofera linifolia	x											x					x			x		x					x										
Indigofera monophylla		x	x				x					x		x			x			x				x	x	x	x			x	x	x		x			x
Indigofera rugosa																	x		x																		
Indigofera trita subsp. *trita*																																					
Indigofera sp.																																					
Ipomoea costata																																					
Ipomoea lonchophylla																																					
Ipomoea muelleri																						x															
Ipomoea sp.																																					
Iseilema macrantherum																																					
Iseilema ?*vaginiflorum*																																					
Iseilema sp.													x																								
Isotropis atropurpurea												x																									

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	Ixiochlamys cuneifolia																																					
	Jasminum didymum subsp. *lineare*								x																													
	Kirganelia baccata																																					
	Lobelia arnhemiaca																																			x		
	Lotus australis																	x																				
	Lotus cruentus																																					
	Ludwigia perennis																																					
	Malvaceae sp.						x							x																								
*	*Malvastrum americanum*																																					
	Marsilea hirsuta																																					
	Melaleuca argentea																																					
	Melaleuca bracteata																																					
	Melaleuca glomerata					x																	x											x				
	Melaleuca linophylla															x																		x		x		
	Melhania oblongifolia																																					
*	*Melochia pyramidata*																																					
	Nellica maderaspatensis								x															x					x								x	
	Neptunia longipila (P2)																																					
	Neurachne muelleri																																					
	Nicotiana occidentalis																																					
	Notoleptopus decaisnei												x																							x		
	Panicum decompositum																																					
	Panicum sp.																																					
	Paspalidium basicladum			x									x										x															
	Paspalidium clementii																																					
	Paspalidium tabulatum					x							x																									
	Paspalidium sp.																																				x	
	Pentalepis trichodesmoides subsp. *hispida* (P2)																x																					
	Peplidium sp. E Evol. Fl. Fauna Arid Aust. (A.S. Weston 12768)																																					
	Pluchea rubelliflora															x							x														
	Pluchea sp.																																					
	Plumbago zeylanica																																					
	Poaceae sp.																																					

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

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Species	Q053	Q054	Q055	Q056	Q057	Q058	Q060	Q061	Q062	Q063	Q064	Q065	Q066	Q067	Q068	Q069	Q071	Q072	Q073	Q075	Q076	Q077	Q079	Q080	Q081	Q083	Q084	Q085	Q086	Q087	Q088	Q089	Q090	Q092	Q094	Q096	Q097
Polycarpaea corymbosa	x											x					x							x				x					x				
Polycarpaea holtzei													x											x			x										
Polycarpaea longiflora				x							x			x	x										x	x											
Polycarpaea sp.																																					
Polymeria ambigua			x				x													x					x												
Polymeria calycina																																					
Polymeria mollis																	x																				
Portulaca filifolia	x																																				
Portulaca oleracea																																					
Potamogeton tepperi																																					
Potamogeton ?tepperi																																					
Pterocaulon sphacelatum																																					
Pterocaulon sphaeranthoides																																					
Ptilotus aervoides																																					
Ptilotus astrolasius																																					
Ptilotus auriculifolius	x	x	x			x			x	x		x	x		x	x	x		x					x	x	x	x	x				x		x			x
Ptilotus calostachyus	x						x		x										x								x				x	x		x			
Ptilotus carinatus																		x																	x		
Ptilotus clementii													x											x													
Ptilotus exaltatus				x			x							x						x		x					x								x		
Ptilotus gaudichaudii			x				x					x	x	x				x	x					x		x	x					x		x			x
Ptilotus gomphrenoides																							x					x	x								
Ptilotus incanus									x								x										x										
Ptilotus obovatus																																					
Ptilotus polystachyus					x																																
Ptilotus rotundifolius																																					
Ptilotus schwartzii					x	x							x										x	x													
Ptilotus sp.								x																													
Rhagodia eremaea																																					
Rhodanthe margarethae				x																																	
Rhynchosia bungarensis (P4)												x											x														
Rhynchosia minima								x										x										x	x							x	
Rhynchosia ?minima																																					

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Rostellularia adscendens var. *clementii*																																					
Salsola australis																																					
Scaevola spinescens								x										x																			
Schenkia sp.																																					
Schoenoplectus subulatus																																					
Schoenus falcatus																	x																				
Sclerolaena gardneri																																					
Senna artemisioides									x																												
Senna artemisioides subsp. *helmsii*																	x																			x	
Senna artemisioides subsp. *oligophylla*								x		x							x	x																			
Senna glutinosa subsp. *glutinosa*		x					x							x																							
Senna glutinosa subsp. *pruinosa*													x																		x				x		
Senna notabilis	x	x	x		x	x	x					x		x	x		x					x		x	x		x	x				x	x	x	x		
Senna ?*notabilis*																																					
Seringia nephrosperma																																					
Sesbania cannabina	x																					x															
Sesbania formosa																																					
* *Setaria verticillata*																																					
Sida ?*fibulifera*																																					
Sida echinocarpa																						x															
Sida rohlenae subsp. *rohlenae*																																					
Sida trichopoda																																					
Sida sp. Articulation below (A.A. Mitchell PRP 1605)						x																		x													
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		x															x	x									x										
Sida sp.																																					
Solanum cleistogamum					x			x				x		x			x											x										
Solanum diversiflorum	x		x			x						x		x								x		x													
Solanum lasiophyllum																											x										
Solanum phlomoides																																					
Solanum sp.				x																																x	
* *Sonchus oleraceus*																																					
Sporobolus actinocladus																																					
Sporobolus australasicus																												x									

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Sporobolus sp.																																					
Stemodia grossa	x		x		x			x			x				x		x					x													x		
Stemodia kingii																													x								
Stemodia sp.																																					
Streptoglossa bubakii																		x					x						x							x	
Streptoglossa decurrens																																					
Streptoglossa sp.																																					
Stylidium fluminense																																					
Swainsona formosa					x							x		x	x		x																				
Swainsona stenodonta			x	x										x																							
Synaptantha tillaeacea var. *tillaeacea*																																					
Tephrosia rosea var. *clementii*	x																			x		x											x				
Tephrosia supina			x									x																									
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)												x																									
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)																																					
Tephrosia sp. clay soils (S. van Leeuwen et al. PBS 0273)																																					
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)																				x																	
Tephrosia sp.																																					
Terminalia circumalata	x			x	x			x			x	x		x	x							x											x				
Themeda triandra							x																														x
Tinospora smilacina				x													x							x											x	x
Trachymene oleracea subsp. *oleracea*	x		x		x		x					x	x	x								x										x		x	x		x
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)																																					
Tribulus hirsutus	x	x	x	x	x							x	x						x	x		x			x		x					x		x			x
Tribulus platypterus							x							x	x				x	x		x			x	x										x
Tribulus suberosus			x		x				x	x		x	x											x													
Tribulus sp.																																					
Trichodesma zeylanicum var. *zeylanicum*				x	x		x						x	x				x	x	x					x			x					x			x
Trigastrotheca molluginea		x	x		x				x			x																									
Triodia angusta																																					
Triodia brizoides																																					
Triodia epactia			x		x	x						x																					x				
Triodia wiseana								x		x		x	x			x	x			x			x	x			x			x	x	x		x		x	

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Triodia ?wiseana	x			x			x	x	x	x	x			x	x			x	x		x				x	x		x			x					x	x
Triodia sp.		x																				x															
Triumfetta appendiculata			x		x	x						x																									
Triumfetta clementii	x						x					x								x				x													
Triumfetta maconochieana							x																		x												
Triumfetta propinqua														x																							
Triumfetta sp.																																					
Typha domingensis																																					
* *Vachellia farnesiana*					x																																
Vallisneria annua																																					
Vigna lanceolata var. *lanceolata*																																					
Vigna sp.																																					
Waltheria indica																	x																				

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Abutilon lepidum										x		x										x		x							x			x			
Abutilon sp.																																					
Acacia ampliceps																																					
Acacia ancistrocarpa		x																																			x
Acacia arida									x					x						x	x			x					x	x	x		x			x	x
Acacia bivenosa				x					x			x		x			x	x	x	x		x	x			x	x	x	x	x		x	x	x		x	x
Acacia colei var. *colei*																																					
Acacia coriacea subsp. *pendens*			x																x			x															
Acacia inaequilatera				x					x	x	x		x	x	x		x				x		x	x		x			x	x		x	x			x	x
Acacia ligulata																																					
Acacia maitlandii														x			x						x				x			x					x	x	
Acacia pyrifolia var. *morrisonii*																																					
Acacia pyrifolia var. *pyrifolia*		x		x		x	x		x				x		x		x			x	x	x		x				x	x		x	x	x	x		x	x
Acacia sibina																																					
Acacia trachycarpa		x																																			
Acacia tumida							x									x			x		x				x											x	
Acacia tumida var. *pilbarensis*		x													x											x	x	x					x	x			x
Acacia xiphophylla																																					
Acacia sp.																															x						
* *Aerva javanica*																																					
Afrohybanthus aurantiacus		x																																			x
Alternanthera nana																																					x
Alternanthera nodiflora																																					
Alternanthera sp.																																					
Alysicarpus muelleri													x	x																							
Amaranthus undulatus																						x															
Ammannia baccifera																																					
Amyema sanguinea var. *sanguinea*																																					
Aristida burbidgeae																																					
Aristida contorta									x				x																					x			
Aristida holathera																																					
Aristida holathera var. *holathera*										x																											
Aristida latifolia	x			x	x			x						x											x												

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Arivela viscosa		x	x	x	x	x				x			x	x								x		x													x
Asteraceae sp.																																					
Astrebla elymoides																																					
Astrebla pectinata																																					
Atriplex sp.																																					
Austrobryonia pilbarensis																																					
Bergia trimera																																					
Boerhavia burbidgeana																																	x				x
Boerhavia gardneri					x								x	x															x		x						
Boerhavia sp.																								x											x		
Bonamia erecta																																					
Bonamia linearis																																					
Bonamia media										x																x			x	x	x						
Bonamia pannosa		x															x									x									x		
Boraginaceae sp.																																					
Bothriochloa ewartiana																																					
Brachychiton acuminatus																																					
Bulbostylis barbata																										x											
Cajanus cinereus										x										x						x											
Calandrinia ptychosperma																																					
Calocephalus ?beardii																																					
Cassytha filiformis																									x												
Cassytha sp.																					x		x				x										
* *Cenchrus ciliaris*												x	x																								
Centipeda minima																																					
Cheilanthes sp.																																					
Chrysopogon fallax													x																								
Clerodendrum floribundum var. *angustifolium*																																					
Clerodendrum tomentosum var. *lanceolatum*																																					
Commelina ensifolia																																					
Convolvulaceae sp.																																					
Corchorus lasiocarpus subsp. *parvus*											x																										
Corchorus ?lasiocarpus																																					

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Corchorus sidoides subsp. *sidoides*							x																														
Corchorus walcottii										x			x	x	x	x		x	x	x	x			x		x			x	x	x		x	x		x	x
Corchorus sp.																											x										
Corymbia hamersleyana										x				x	x					x	x			x	x			x	x	x				x	x	x	x
Crotalaria medicaginea																																					
Crotalaria medicaginea var. *neglecta*																																					
Crotalaria novae-hollandiae subsp. *novae-hollandiae*					x	x																															
Crotalaria sp.																																					
Cucumis melo					x			x																													
Cucumis variabilis																																					
Cucumis sp.																																					
Cullen cinereum																																					
Cullen leucanthum																																					
Cullen leucochaites																																					
Cullen sp.																																					
Cymbopogon ambiguus																					x	x	x	x			x							x			x
Cymbopogon obtectus					x																												x				x
Cymbopogon sp.																																					
Cynanchum floribundum																																					
Cynanchum viminale subsp. *australe*																																					
Cynanchum sp.																																					
Cynodon convergens																																					
* *Cynodon dactylon*																																					
Cyperaceae sp.																																			x		
Cyperus iria																																					
Cyperus vaginatus		x	x															x	x			x															x
Dampiera candicans																																					
Dichanthium sericeum subsp. *humilius*																																					
Dichrostachys spicata			x																																		
Dicliptera armata																																					
Diplachne fusca subsp. *fusca*																																					
Dodonaea coriacea							x									x					x		x				x						x			x	
Dolichocarpa crouchiana	x											x																									

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Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)														x																							
Dysphania kalpari	x						x		x	x		x		x	x						x					x				x					x		
Dysphania sp.																																					
Ehretia saligna var. *saligna*																					x		x														
Eleocharis geniculata																																					
Enchylaena tomentosa var. *tomentosa*																																					
Enneapogon caerulescens				x																																	
Enneapogon lindleyanus																						x															x
Enneapogon ?lindleyanus																																					
Enneapogon polyphyllus													x	x																							
Eragrostis cumingii																																					
Eragrostis elongata																																					
Eragrostis tenellula																																					
Eragrostis sp.																																					
Eremophila forrestii subsp. *forrestii*																																					
Eremophila longifolia																																		x			
Eriachne benthamii			x													x																					
Eriachne ciliata																																					
Eriachne mucronata										x											x		x														
Eriachne pulchella																																					
Eriachne pulchella subsp. *dominii*																																					
Eriachne sp.																																					
?*Eriachne* sp.																						x															
Erythrina vespertilio																																					
Eucalyptus camaldulensis																																					
Eucalyptus ?camaldulensis																																					
Eucalyptus leucophloia subsp. *leucophloia*												x									x		x				x	x					x		x		
Eucalyptus victrix		x	x															x	x			x						x									x
Eucalyptus sp.																																					
Eulalia aurea																																					
Euphorbia australis var. *subtomentosa*																																					
Euphorbia boophthona																																					
Euphorbia careyi																																					

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Euphorbia coghlanii			x							x									x																	
Euphorbia inappendiculata var. *inappendiculata* (P3)																																					
Euphorbia sp. 1																																					
Euphorbia sp. 2																																					
Euphorbia stevenii (P3)						x																															
Euphorbia tannensis subsp. *eremophila*										x																											
Euphorbia trigonosperma		x											x	x										x													
Euphorbia vaccaria var. *vaccaria*		x												x																							x
Euphorbia sp.																																					
Euploca cunninghamii																																					
Euploca ovalifolia																																					
Euploca skeleton																																					
Evolvulus alsinoides																																					x
Evolvulus alsinoides var. *alsinoides*																																					
Evolvulus alsinoides var. *decumbens*																																					
Evolvulus alsinoides var. *villosicalyx*													x																								
Evolvulus sp.																																					
Fabaceae sp.																																					
Ficus aculeata var. *indecora*																																					
Ficus ?*brachypoda*																																					
Fimbristylis dichotoma																																					
* *Flaveria trinervia*																																					
Flueggea virosa subsp. *melanthesoides*			x																																		
Glinus lotoides																																					
Gomphrena canescens														x				x																			
Gomphrena cunninghamii						x														x	x	x		x		x					x						
?*Gomphrena* sp.																																					
Goodenia lamprosperma		x	x									x																									
Goodenia ?*lamprosperma*																																					
Goodenia microptera							x		x			x	x		x								x			x										x	
Goodenia muelleriana																																					
Goodenia scaevolina							x			x					x	x					x				x												
Goodenia stobbsiana																																					

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Goodenia sp.																																					
Goodeniaceae sp.													x																								
Gossypium australe		x																	x						x				x								
Gossypium robinsonii																																					
Gossypium sp.						x	x			x							x			x	x				x			x					x		x	x	
Grevillea pyramidalis subsp. *leucadendron*							x		x							x									x												
Grevillea wickhamii																																					
Grevillea sp.																																					
?*Grevillea* sp.					x			x	x						x		x																				
Hakea chordophylla						x			x																												
Hakea ?*chordophylla*									x				x													x											
Hakea lorea	x							x					x	x												x											
Hakea ?*lorea*								x																													
Heliotropium crispatum													x																								
Heteropogon contortus																																					
Hibiscus burtonii													x																								
Hibiscus sturtii var. *campylochlamys*																																					
Hibiscus verdcourtii													x																								
Indigastrum parviflorum																																					
Indigofera colutea				x	x			x	x		x	x	x	x																							
Indigofera linifolia						x	x		x	x	x	x			x		x			x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x
Indigofera monophylla																																					
Indigofera rugosa																																					
Indigofera trita subsp. *trita*																																					
Indigofera sp.																																					
Ipomoea costata																																					
Ipomoea lonchophylla																																					
Ipomoea muelleri				x																																	
Ipomoea sp.																																					
Iseilema macrantherum																																					
Iseilema ?*vaginiflorum*																																					
Iseilema sp.													x	x																							
Isotropis atropurpurea																																					

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

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Species	Q098	Q099	Q100	Q101	Q102	Q103	Q104	Q105	Q106	Q107	Q108	Q109	Q111	Q112	Q113	Q114	Q116	Q118	Q119	Q120	Q121	Q122	Q125	Q128	Q130	Q131	Q133	Q134	Q135	Q137	Q140	Q141	Q142	Q143	Q144	Q145	Q147
Ixiochlamys cuneifolia																																					
Jasminum didymum subsp. *lineare*																						x												x		x	
Kirganelia baccata																																					
Lobelia arnhemiaca																																					
Lotus australis																																					
Lotus cruentus																																					
Ludwigia perennis																																					
Malvaceae sp.																																					
* *Malvastrum americanum*																																					x
Marsilea hirsuta																																					
Melaleuca argentea																																					
Melaleuca bracteata																																					
Melaleuca glomerata		x																																			
Melaleuca linophylla		x																				x															
Melhania oblongifolia																																					
* *Melochia pyramidata*																																					
Nellica maderaspatensis	x		x		x			x						x					x																		x
Neptunia longipila (P2)														x																							
Neurachne muelleri																					x													x			
Nicotiana occidentalis																																					
Notoleptopus decaisnei																																					
Panicum decompositum																																					
Panicum sp.																																					
Paspalidium basicladum																											x				x						
Paspalidium clementii																																					
Paspalidium tabulatum																		x																			
Paspalidium sp.																																					
Pentalepis trichodesmoides subsp. *hispida* (P2)																																					
Peplidium sp. E Evol. Fl. Fauna Arid Aust. (A.S. Weston 12768)																																					
Pluchea rubelliflora		x																																			
Pluchea sp.																																					
Plumbago zeylanica																																					
Poaceae sp.																																					

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Polycarpaea corymbosa																																					
Polycarpaea holtzei																																					
Polycarpaea longiflora																		x	x	x				x													x
Polycarpaea sp.																																					
Polymeria ambigua									x						x									x												x	
Polymeria calycina																																					
Polymeria mollis		x																														x					
Portulaca filifolia													x																								
Portulaca oleracea													x																								
Potamogeton tepperi																																					
Potamogeton ?tepperi																																					
Pterocaulon sphacelatum																										x	x										
Pterocaulon sphaeranthoides																																					
Ptilotus aervoides																																					
Ptilotus astrolasius																																					
Ptilotus auriculifolius		x			x	x		x	x	x		x		x															x					x			
Ptilotus calostachyus				x								x			x	x				x			x				x	x					x	x			
Ptilotus carinatus					x			x																						x							
Ptilotus clementii																																					
Ptilotus exaltatus				x									x		x					x			x														
Ptilotus gaudichaudii						x			x	x																											
Ptilotus gomphrenoides	x																																				
Ptilotus incanus																x						x	x														
Ptilotus obovatus																																					
Ptilotus polystachyus																																					
Ptilotus rotundifolius																																					
Ptilotus schwartzii																	x																			x	
Ptilotus sp.																																					
Rhagodia eremaea																																					
Rhodanthe margarethae																																					
Rhynchosia bungarensis (P4)		x											x																					x			
Rhynchosia minima	x				x	x		x																													
Rhynchosia ?minima																																					

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Rostellularia adscendens var. *clementii*																																					
Salsola australis																																					
Scaevola spinescens																											x					x					
Schenkia sp.																																					
Schoenoplectus subulatus																																					
Schoenus falcatus																																					
Sclerolaena gardneri																																					
Senna artemisioides																x																					
Senna artemisioides subsp. *helmsii*									x				x							x																	x
Senna artemisioides subsp. *oligophylla*	x																x							x	x											x	
Senna glutinosa subsp. *glutinosa*															x		x				x		x			x	x			x	x		x	x	x	x	x
Senna glutinosa subsp. *pruinosa*							x				x	x			x		x			x	x		x			x			x		x	x				x	x
Senna notabilis		x		x					x	x			x	x				x		x	x			x		x					x		x				x
Senna ?notabilis																																					
Seringia nephrosperma																																					
Sesbania cannabina		x																																			
Sesbania formosa																																					
* *Setaria verticillata*																																					
Sida ?fibulifera																																					
Sida echinocarpa		x		x	x			x	x											x				x							x		x				x
Sida rohlenae subsp. *rohlenae*																																					
Sida trichopoda														x																							
Sida sp. Articulation below (A.A. Mitchell PRP 1605)																																					
Sida sp. Pilbara (A.A. Mitchell PRP 1543)							x							x						x	x		x			x							x	x		x	x
Sida sp.																									x												
Solanum cleistogamum	x			x	x			x																		x											
Solanum diversiflorum		x		x						x					x																						
Solanum lasiophyllum																										x									x		
Solanum phlomoides																																					
Solanum sp.								x																x													
* *Sonchus oleraceus*								x																													
Sporobolus actinocladus																																					
Sporobolus australasicus				x																																	x

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Sporobolus sp.																																					
Stemodia grossa		x	x															x	x			x															x
Stemodia kingii				x	x			x																													
Stemodia sp.																																					
Streptoglossa bubakii	x			x	x			x																													
Streptoglossa decurrens																										x											
Streptoglossa sp.																																					
Stylidium fluminense																																					
Swainsona formosa																																					
Swainsona stenodonta																																					
Synaptantha tillaeacea var. *tillaeacea*																																					
Tephrosia rosea var. *clementii*		x																x	x			x		x										x			x
Tephrosia supina							x																		x												
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)																																					
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)																																					
Tephrosia sp. clay soils (S. van Leeuwen et al. PBS 0273)																																					
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)																																					
Tephrosia sp.																																					
Terminalia circumalata			x															x				x														
Themeda triandra																																					
Tinospora smilacina				x	x	x		x		x												x															
Trachymene oleracea subsp. *oleracea*									x	x																x				x							
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)																																					
Tribulus hirsutus		x			x				x	x			x																								
Tribulus platypterus										x																											
Tribulus suberosus							x				x									x	x		x	x	x	x	x		x		x						
Tribulus sp.																																					
Trichodesma zeylanicum var. *zeylanicum*										x														x													
Trigastrotheca molluginea							x		x							x									x												
Triodia angusta																																					
Triodia brizoides																																					
Triodia epactia																																					
Triodia wiseana	x				x	x		x	x	x		x	x	x			x				x	x	x	x		x	x			x	x	x		x	x	x	

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	Triodia ?wiseana		x	x	x	x		x	x	x		x	x			x	x		x	x	x					x			x	x				x				x
	Triodia sp.		x																																			
	Triumfetta appendiculata																																					
	Triumfetta clementii														x																	x						
	Triumfetta maconochieana															x																						
	Triumfetta propinqua																																					
	Triumfetta sp.																					x																
	Typha domingensis																						x															
*	*Vachellia farnesiana*																																					x
	Vallisneria annua																																					
	Vigna lanceolata var. *lanceolata*																																					
	Vigna sp.																																					
	Waltheria indica																								x													

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Species	Q149	Q152	Q154	Q156	Q157	Q158	Q160	Q161	Q162	Q163	Q164	Q166	Q169	Q170	Q171	Q172	Q173	Q174	Q177	Q181	Q182	Q183	Q184	Q185	Q188	Q189	Q190	Q191	Q192	Q194	Q195	Q196	Q199	Q200	Q201	Q202	Q203
Abutilon lepidum													x			x			x						x		x										
Abutilon sp.																																					
Acacia ampliceps																																					
Acacia ancistrocarpa	x								x	x		x		x	x			x		x	x	x	x		x		x		x		x	x			x		
Acacia arida						x																										x					
Acacia bivenosa	x	x	x					x	x	x	x	x			x	x	x	x		x		x	x	x	x		x	x	x	x	x	x	x	x	x	x	x
Acacia colei var. *colei*																																					
Acacia coriacea subsp. *pendens*										x																										x	
Acacia inaequilatera			x		x		x	x	x			x	x	x						x	x	x	x	x	x		x		x				x	x			x
Acacia ligulata																																					
Acacia maitlandii	x				x							x			x			x		x									x			x					
Acacia pyrifolia var. *morrisonii*																																					
Acacia pyrifolia var. *pyrifolia*	x	x	x						x	x	x				x						x								x	x	x			x	x		x
Acacia sibina																		x	x	x	x														x		
Acacia trachycarpa																																					
Acacia tumida																																					
Acacia tumida var. *pilbarensis*										x	x								x										x								
Acacia xiphophylla																																					
Acacia sp.																																					
* *Aerva javanica*																																					
Afrohybanthus aurantiacus										x																											
Alternanthera nana					x																																
Alternanthera nodiflora																																					
Alternanthera sp.																																					
Alysicarpus muelleri																																					
Amaranthus undulatus																																					
Ammannia baccifera																																					
Amyema sanguinea var. *sanguinea*																																					
Aristida burbidgeae																																					
Aristida contorta		x	x	x		x	x									x													x								
Aristida holathera																																					
Aristida holathera var. *holathera*																																					
Aristida latifolia																																					

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Arivela viscosa							x									x			x																	x	
Asteraceae sp.																																	x				
Astrebla elymoides																																					
Astrebla pectinata																																					
Atriplex sp.																																					
Austrobryonia pilbarensis																																					
Bergia trimera																																					
Boerhavia burbidgeana																																					
Boerhavia gardneri		x																																		x	
Boerhavia sp.									x			x																									
Bonamia erecta																																					
Bonamia linearis																																					
Bonamia media															x									x													
Bonamia pannosa							x														x				x		x			x							
Boraginaceae sp.																																					
Bothriochloa ewartiana																																					
Brachychiton acuminatus																																					
Bulbostylis barbata																																					
Cajanus cinereus																																					
Calandrinia ptychosperma																																					
Calocephalus ?beardii																																					
Cassytha filiformis																																					
Cassytha sp.										x																											
* *Cenchrus ciliaris*										x																										x	
Centipeda minima																																					
Cheilanthes sp.																																					
Chrysopogon fallax																																					
Clerodendrum floribundum var. *angustifolium*				x																																	
Clerodendrum tomentosum var. *lanceolatum*																																					
Commelina ensifolia																																					
Convolvulaceae sp.																								x													
Corchorus lasiocarpus subsp. *parvus*																																					
Corchorus ?lasiocarpus																																					

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Corchorus sidoides subsp. *sidoides*																																					
Corchorus walcottii	x		x		x		x				x						x				x					x			x	x							
Corchorus sp.																																					
Corymbia hamersleyana		x						x			x	x			x						x				x		x			x	x						x
Crotalaria medicaginea																																					
Crotalaria medicaginea var. *neglecta*										x						x																					
Crotalaria novae-hollandiae subsp. *novae-hollandiae*																																					
Crotalaria sp.																																					
Cucumis melo																																					
Cucumis variabilis																																					
Cucumis sp.																																					
Cullen cinereum																																					
Cullen leucanthum																																					
Cullen leucochaites		x									x																										
Cullen sp.																																					
Cymbopogon ambiguus										x												x															
Cymbopogon obtectus				x																									x								
Cymbopogon sp.																																					
Cynanchum floribundum																																					
Cynanchum viminale subsp. *australe*																																					
Cynanchum sp.																																					
Cynodon convergens																																					
* *Cynodon dactylon*																																					
Cyperaceae sp.												x																									
Cyperus iria																																					
Cyperus vaginatus																																				x	
Dampiera candicans																																					
Dichanthium sericeum subsp. *humilius*																																					
Dichrostachys spicata																																					
Dicliptera armata																																					
Diplachne fusca subsp. *fusca*																																					
Dodonaea coriacea															x			x		x	x								x			x				
Dolichocarpa crouchiana							x												x																		

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Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)																																					
Dysphania kalpari						x	x			x						x			x																		
Dysphania sp.																																					
Ehretia saligna var. *saligna*				x															x																		
Eleocharis geniculata																																					
Enchylaena tomentosa var. *tomentosa*																																					
Enneapogon caerulescens																																					
Enneapogon lindleyanus																																					
Enneapogon ?*lindleyanus*																																					
Enneapogon polyphyllus																																					
Eragrostis cumingii																																					
Eragrostis elongata																																					
Eragrostis tenellula																																					
Eragrostis sp.																																					
Eremophila forrestii subsp. *forrestii*														x																							
Eremophila longifolia								x			x																										
Eriachne benthamii																			x																		
Eriachne ciliata																																					
Eriachne mucronata				x																																	
Eriachne pulchella																																					
Eriachne pulchella subsp. *dominii*																																					
Eriachne sp.																													x								
?*Eriachne* sp.																																					
Erythrina vespertilio																																					
Eucalyptus camaldulensis																																					
Eucalyptus ?*camaldulensis*																																					
Eucalyptus leucophloia subsp. *leucophloia*				x	x			x							x	x		x	x	x											x				x		
Eucalyptus victrix										x																						x		x		x	
Eucalyptus sp.																																					
Eulalia aurea										x																											
Euphorbia australis var. *subtomentosa*																																					
Euphorbia boophthona																																					
Euphorbia careyi																																					

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Euphorbia coghlanii																																				x	
Euphorbia inappendiculata var. *inappendiculata* (P3)																																					
Euphorbia sp. 1																																					
Euphorbia sp. 2																																					
Euphorbia stevenii (P3)																																					
Euphorbia tannensis subsp. *eremophila*																																					
Euphorbia trigonosperma											x								x																		
Euphorbia vaccaria var. *vaccaria*																																					
Euphorbia sp.																																					
Euploca cunninghamii																																					
Euploca ovalifolia																																					
Euploca skeleton																																					
Evolvulus alsinoides																																					
Evolvulus alsinoides var. *alsinoides*																																					
Evolvulus alsinoides var. *decumbens*																																					
Evolvulus alsinoides var. *villosicalyx*										x																											
Evolvulus sp.																																					
Fabaceae sp.																																					
Ficus aculeata var. *indecora*																																					
Ficus ?*brachypoda*																																					
Fimbristylis dichotoma																																					
* *Flaveria trinervia*																																					
Flueggea virosa subsp. *melanthesoides*																																					
Glinus lotoides																																					
Gomphrena canescens																																					
Gomphrena cunninghamii																																					
?*Gomphrena* sp.																																					
Goodenia lamprosperma										x																											
Goodenia ?*lamprosperma*																																					
Goodenia microptera										x					x																						
Goodenia muelleriana																																					
Goodenia scaevolina						x									x				x	x						x			x								
Goodenia stobbsiana																																					

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	Q149	Q152	Q154	Q156	Q157	Q158	Q160	Q161	Q162	Q163	Q164	Q166	Q169	Q170	Q171	Q172	Q173	Q174	Q177	Q181	Q182	Q183	Q184	Q185	Q188	Q189	Q190	Q191	Q192	Q194	Q195	Q196	Q199	Q200	Q201	Q202	Q203
Goodenia sp.																																					
Goodeniaceae sp.																																					
Gossypium australe									x		x											x				x							x				
Gossypium robinsonii										x																										x	
Gossypium sp.																																					
Grevillea pyramidalis subsp. *leucadendron*											x						x				x		x	x	x	x	x							x	x		x
Grevillea wickhamii		x				x				x							x														x						
Grevillea sp.																																					
?*Grevillea* sp.																																					
Hakea chordophylla							x	x									x	x	x									x			x			x			
Hakea ?*chordophylla*		x											x												x		x	x				x		x			
Hakea lorea				x		x																										x					
Hakea ?*lorea*	x														x					x		x		x													
Heliotropium crispatum																																					
Heteropogon contortus																																					
Hibiscus burtonii																																					
Hibiscus sturtii var. *campylochlamys*											x																										
Hibiscus verdcourtii																																					
Indigastrum parviflorum																																					
Indigofera colutea																																					
Indigofera linifolia																																					
Indigofera monophylla	x	x	x	x	x	x	x		x	x	x	x			x	x		x								x		x	x	x	x		x				
Indigofera rugosa																																					
Indigofera trita subsp. *trita*																																					
Indigofera sp.																																					
Ipomoea costata																																					
Ipomoea lonchophylla																																					
Ipomoea muelleri																																					
Ipomoea sp.																																					
Iseilema macrantherum																																					
Iseilema ?*vaginiflorum*																																					
Iseilema sp.																																					
Isotropis atropurpurea																																					

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Ixiochlamys cuneifolia																																					
Jasminum didymum subsp. *lineare*																																					
Kirganelia baccata																																					
Lobelia arnhemiaca																																					
Lotus australis																																					
Lotus cruentus																																					
Ludwigia perennis																																					
Malvaceae sp.												x																x							x		
* *Malvastrum americanum*																																					
Marsilea hirsuta																																					
Melaleuca argentea																																					
Melaleuca bracteata																																					
Melaleuca glomerata																																				x	
Melaleuca linophylla																																				x	
Melhania oblongifolia																																					
* *Melochia pyramidata*																																					
Nellica maderaspatensis																																					
Neptunia longipila (P2)																																					
Neurachne muelleri	x																																				
Nicotiana occidentalis																																					
Notoleptopus decaisnei																																					
Panicum decompositum																																					
Panicum sp.																																					
Paspalidium basicladum																																					
Paspalidium clementii																																					
Paspalidium tabulatum																																					
Paspalidium sp.																																					
Pentalepis trichodesmoides subsp. *hispida* (P2)																																					
Peplidium sp. E Evol. Fl. Fauna Arid Aust. (A.S. Weston 12768)																																					
Pluchea rubelliflora										x																											
Pluchea sp.																																					
Plumbago zeylanica																																					
Poaceae sp.																					x																

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Polycarpaea corymbosa																																					
Polycarpaea holtzei																																					
Polycarpaea longiflora						x																														x	
Polycarpaea sp.																																					
Polymeria ambigua										x	x																		x								
Polymeria calycina										x					x																						
Polymeria mollis																																					x
Portulaca filifolia																																					
Portulaca oleracea																																					
Potamogeton tepperi																																					
Potamogeton ?tepperi																																					
Pterocaulon sphacelatum																																					
Pterocaulon sphaeranthoides																																					
Ptilotus aervoides																																					
Ptilotus astrolasius											x			x																							
Ptilotus auriculifolius				x			x						x						x						x		x					x					
Ptilotus calostachyus	x														x					x					x		x		x			x					
Ptilotus carinatus																									x		x										
Ptilotus clementii																																					
Ptilotus exaltatus					x		x	x								x										x			x								
Ptilotus gaudichaudii							x									x										x											
Ptilotus gomphrenoides																																					
Ptilotus incanus																																					
Ptilotus obovatus																x																					
Ptilotus polystachyus																																					
Ptilotus rotundifolius																																					
Ptilotus schwartzii																					x										x		x				
Ptilotus sp.																																					
Rhagodia eremaea																																					
Rhodanthe margarethae																																					
Rhynchosia bungarensis (P4)										x																											
Rhynchosia minima																																					
Rhynchosia ?minima																																					

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Rostellularia adscendens var. *clementii*																																					
Salsola australis																																					
Scaevola spinescens								x																						x							
Schenkia sp.																																					
Schoenoplectus subulatus																																					
Schoenus falcatus																																					
Sclerolaena gardneri																																					
Senna artemisioides																																					
Senna artemisioides subsp. *helmsii*		x				x					x	x										x		x					x	x							
Senna artemisioides subsp. *oligophylla*													x					x																			
Senna glutinosa subsp. *glutinosa*			x	x	x	x	x	x		x		x		x	x	x		x	x	x	x		x	x	x	x	x	x	x	x	x				x		
Senna glutinosa subsp. *pruinosa*	x		x					x						x	x			x		x			x	x				x			x	x			x		
Senna notabilis						x	x						x					x							x		x										x
Senna ?*notabilis*																																					
Seringia nephrosperma																																					
Sesbania cannabina																																					
Sesbania formosa																																					
* *Setaria verticillata*																																					
Sida ?*fibulifera*																																					
Sida echinocarpa		x				x																															
Sida rohlenae subsp. *rohlenae*																																					
Sida trichopoda																																					
Sida sp. Articulation below (A.A. Mitchell PRP 1605)																																					
Sida sp. Pilbara (A.A. Mitchell PRP 1543)					x							x			x						x					x				x						
Sida sp.													x																								
Solanum cleistogamum																		x																			
Solanum diversiflorum																																					
Solanum lasiophyllum																																					
Solanum phlomoides																																					
Solanum sp.											x																				x						
* *Sonchus oleraceus*																																					
Sporobolus actinocladus																																					
Sporobolus australasicus																																					

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Sporobolus sp.																																					
Stemodia grossa										x																											
Stemodia kingii																																					
Stemodia sp.																																					
Streptoglossa bubakii																x																					
Streptoglossa decurrens																																					
Streptoglossa sp.																																					
Stylidium fluminense																																					
Swainsona formosa																																					
Swainsona stenodonta				x			x									x																					
Synaptantha tillaeacea var. *tillaeacea*																																					
Tephrosia rosea var. *clementii*										x	x																										
Tephrosia supina							x						x																								
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)																																					
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)																																					
Tephrosia sp. clay soils (S. van Leeuwen et al. PBS 0273)																																					
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)																																					
Tephrosia sp.																																					
Terminalia circumalata																																					
Themeda triandra																																					
Tinospora smilacina																																					
Trachymene oleracea subsp. *oleracea*																																					
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)																																					
Tribulus hirsutus							x									x																					
Tribulus platypterus						x										x													x								
Tribulus suberosus					x																																
Tribulus sp.																																					
Trichodesma zeylanicum var. *zeylanicum*																															x						
Trigastrotheca molluginea															x																					
Triodia angusta																																					
Triodia brizoides																																					
Triodia epactia										x	x							x		x											x						
Triodia wiseana	x			x	x		x	x	x	x	x	x		x		x	x	x	x	x	x	x	x	x		x		x	x	x	x		x		x		

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Triodia ?wiseana		x	x	x		x							x		x	x									x		x		x			x		x			x
Triodia sp.																																					
Triumfetta appendiculata																																					
Triumfetta clementii																																					
Triumfetta maconochieana			x																																		
Triumfetta propinqua																																					
Triumfetta sp.																																					
Typha domingensis																																					
* *Vachellia farnesiana*																																					
Vallisneria annua																																					
Vigna lanceolata var. *lanceolata*																																					
Vigna sp.																																					
Waltheria indica																																					

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Species	Q204	Q205	Q206	Q207	Q208	Q209	Q210	Q213	Q214	Q215	Q216	Q219	Q220	Q221	Q222	Q223	Q226	Q228	Q229	Q230	Q231	Q232	Q249	Q310	Q311	Q410	Q411	Q413	R012	R014	R018	R024	R026	R037	R038	R044	R047
Abutilon lepidum																		x			x			x												x	x
Abutilon sp.			x																	x																	
Acacia ampliceps																													x	x		x					
Acacia ancistrocarpa								x			x																x			x					x			
Acacia arida																																			x		x	
Acacia bivenosa	x	x	x					x			x		x			x	x					x					x					x	x		x			
Acacia colei var. *colei*																																						
Acacia coriacea subsp. *pendens*																													x	x	x	x					
Acacia inaequilatera	x	x		x					x				x		x		x	x		x	x	x		x		x						x					
Acacia ligulata																																						
Acacia maitlandii																							x														
Acacia pyrifolia var. *morrisonii*																																						
Acacia pyrifolia var. *pyrifolia*	x		x		x	x												x				x	x				x		x			x			x	x	x
Acacia sibina															x																							
Acacia trachycarpa																														x	x						
Acacia tumida																																						
Acacia tumida var. *pilbarensis*																x		x					x				x			x					x			
Acacia xiphophylla																																						
Acacia sp.																																						
* *Aerva javanica*																		x																				
Afrohybanthus aurantiacus																													x			x			x		
Alternanthera nana																																						
Alternanthera nodiflora																																	x					
Alternanthera sp.																																						
Alysicarpus muelleri												x																										
Amaranthus undulatus																																				x		
Ammannia baccifera																																						
Amyema sanguinea var. *sanguinea*																															x							
Aristida burbidgeae																																		x				
Aristida contorta		x					x							x						x				x														
Aristida holathera																					x			x														
Aristida holathera var. *holathera*																																						
Aristida latifolia						x				x		x				x			x						x	x												

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Arivela viscosa						x	x							x					x				x		x			x	x	x					x	x
Asteraceae sp.																																					
Astrebla elymoides																			x																	
Astrebla pectinata																			x																	
Atriplex sp.																																					
Austrobryonia pilbarensis																																					
Bergia trimera																																					
Boerhavia burbidgeana																																					
Boerhavia gardneri						x										x														x						
Boerhavia sp.										x		x		x			x	x			x			x	x										x		
Bonamia erecta																							x													
Bonamia linearis																																					
Bonamia media																												x							x		
Bonamia pannosa		x	x		x			x						x	x		x			x					x												
Boraginaceae sp.																																					
Bothriochloa ewartiana																																					
Brachychiton acuminatus																														x				x			
Bulbostylis barbata																																					x
Cajanus cinereus																	x				x																
Calandrinia ptychosperma																																				x	
Calocephalus ?beardii																																					
Cassytha filiformis																																					
Cassytha sp.																													x	x		x	x		x		
* *Cenchrus ciliaris*																									x				x				x				
Centipeda minima																																					
Cheilanthes sp.																																					
Chrysopogon fallax																									x												
Clerodendrum floribundum var. *angustifolium*																																					
Clerodendrum tomentosum var. *lanceolatum*																																					
Commelina ensifolia																									x												
Convolvulaceae sp.																															x						
Corchorus lasiocarpus subsp. *parvus*																																			x		
Corchorus ?lasiocarpus																																					

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Corchorus sidoides subsp. *sidoides*																																					
Corchorus walcottii	x	x			x		x		x	x	x			x	x					x	x			x			x	x						x	x	x
Corchorus sp.																																	x				
Corymbia hamersleyana	x		x		x			x										x					x				x	x		x				x		
Crotalaria medicaginea																										x											
Crotalaria medicaginea var. *neglecta*																																				x	
Crotalaria novae-hollandiae subsp. *novae-hollandiae*																					x																
Crotalaria sp.																									x												
Cucumis melo																x																					
Cucumis variabilis																																					
Cucumis sp.															x		x																x				
Cullen cinereum																										x											
Cullen leucanthum																																				x	
Cullen leucochaites																																					
Cullen sp.																																					
Cymbopogon ambiguus																	x												x						x		
Cymbopogon obtectus	x															x																					
Cymbopogon sp.																																					
Cynanchum floribundum																	x																				
Cynanchum viminale subsp. *australe*																																					
Cynanchum sp.																																					
Cynodon convergens										x																											
* *Cynodon dactylon*																										x											
Cyperaceae sp.																																					
Cyperus iria																																					
Cyperus vaginatus																													x	x	x	x	x		x	x	
Dampiera candicans																							x														
Dichanthium sericeum subsp. *humilius*																									x												
Dichrostachys spicata																																					
Dicliptera armata																																					
Diplachne fusca subsp. *fusca*																																	x				
Dodonaea coriacea		x																										x								
Dolichocarpa crouchiana						x	x																														

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Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)										x																											
Dysphania kalpari				x	x		x							x														x									x
Dysphania sp.																																					
Ehretia saligna var. *saligna*																													x								
Eleocharis geniculata																														x							
Enchylaena tomentosa var. *tomentosa*																																					
Enneapogon caerulescens										x															x												
Enneapogon lindleyanus																		x																	x		
Enneapogon ?lindleyanus																														x							
Enneapogon polyphyllus																x	x			x					x												
Eragrostis cumingii																																					
Eragrostis elongata																																					
Eragrostis tenellula																																					
Eragrostis sp.																																					
Eremophila forrestii subsp. *forrestii*																												x									
Eremophila longifolia																																					
Eriachne benthamii																																					x
Eriachne ciliata																																					
Eriachne mucronata							x																						x								
Eriachne pulchella																																					
Eriachne pulchella subsp. *dominii*																								x													
Eriachne sp.																																					
?Eriachne sp.																																					x
Erythrina vespertilio																																	x				
Eucalyptus camaldulensis																																					
Eucalyptus ?camaldulensis																													x								
Eucalyptus leucophloia subsp. *leucophloia*	x																						x					x									
Eucalyptus victrix																															x	x			x	x	
Eucalyptus sp.																														x							
Eulalia aurea																													x			x					
Euphorbia australis var. *subtomentosa*																																					
Euphorbia boophthona																																					
Euphorbia careyi											x						x															x					

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Euphorbia coghlanii																																					
Euphorbia inappendiculata var. *inappendiculata* (P3)										x									x																		
Euphorbia sp. 1																																					
Euphorbia sp. 2																																					
Euphorbia stevenii (P3)																																					
Euphorbia tannensis subsp. *eremophila*																																				x	x
Euphorbia trigonosperma						x	x			x														x										x	x	x
Euphorbia vaccaria var. *vaccaria*														x						x															x	
Euphorbia sp.																																					
Euploca cunninghamii														x																							
Euploca ovalifolia										x		x							x						x										x	
Euploca skeleton																																					
Evolvulus alsinoides							x										x				x																
Evolvulus alsinoides var. *alsinoides*																																					
Evolvulus alsinoides var. *decumbens*																																					
Evolvulus alsinoides var. *villosicalyx*																												x									
Evolvulus sp.																																					
Fabaceae sp.																																					
Ficus aculeata var. *indecora*																														x							
Ficus ?*brachypoda*																														x							
Fimbristylis dichotoma					x									x																							
* *Flaveria trinervia*																																				x	
Flueggea virosa subsp. *melanthesoides*																													x	x				x			x
Glinus lotoides																																	x				
Gomphrena canescens														x						x																	
Gomphrena cunninghamii																								x										x			x
?*Gomphrena* sp.																																					
Goodenia lamprosperma																																					
Goodenia ?*lamprosperma*																																					
Goodenia microptera							x											x						x													
Goodenia muelleriana									x										x																		
Goodenia scaevolina																							x							x							x
Goodenia stobbsiana																																					

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Species	Q204	Q205	Q206	Q207	Q208	Q209	Q210	Q213	Q214	Q215	Q216	Q219	Q220	Q221	Q222	Q223	Q226	Q228	Q229	Q230	Q231	Q232	Q249	Q310	Q311	Q410	Q411	Q413	R012	R014	R018	R024	R026	R037	R038	R044	R047
Goodenia sp.																																					
Goodeniaceae sp.																																					
Gossypium australe													x	x			x															x					
Gossypium robinsonii																																x			x		
Gossypium sp.																																					
Grevillea pyramidalis subsp. *leucadendron*					x				x					x	x																	x					
Grevillea wickhamii																							x											x			
Grevillea sp.																														x							
?*Grevillea* sp.																																					
Hakea chordophylla					x								x		x					x				x													
Hakea ?*chordophylla*																																					
Hakea lorea																						x					x										
Hakea ?*lorea*																																					
Heliotropium crispatum						x										x																					
Heteropogon contortus																																					
Hibiscus burtonii																																					
Hibiscus sturtii var. *campylochlamys*																																					
Hibiscus verdcourtii																																					
Indigastrum parviflorum																																					
Indigofera colutea																																			x		
Indigofera linifolia							x					x												x	x												
Indigofera monophylla	x	x			x			x	x					x			x	x			x			x			x	x						x		x
Indigofera rugosa																																					
Indigofera trita subsp. *trita*						x				x						x			x						x											
Indigofera sp.																																					
Ipomoea costata																					x																
Ipomoea lonchophylla						x						x													x												
Ipomoea muelleri																																			x		
Ipomoea sp.																																x					
Iseilema macrantherum						x										x																					
Iseilema ?*vaginiflorum*																																					
Iseilema sp.												x													x												
Isotropis atropurpurea																																		x			

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Ixiochlamys cuneifolia														x				x																			
Jasminum didymum subsp. *lineare*																							x										x	x			
Kirganelia baccata																																					
Lobelia arnhemiaca																													x	x							
Lotus australis																																					
Lotus cruentus																																					
Ludwigia perennis																																					
Malvaceae sp.				x		x				x		x				x	x		x			x															
* *Malvastrum americanum*																																					
Marsilea hirsuta																																					
Melaleuca argentea																													x								
Melaleuca bracteata																																					
Melaleuca glomerata																														x	x	x				x	
Melaleuca linophylla																													x	x	x						
Melhania oblongifolia																																					
* *Melochia pyramidata*																																					
Nellica maderaspatensis						x				x		x							x						x	x			x				x				
Neptunia longipila (P2)						x										x			x																		
Neurachne muelleri																					x																x
Nicotiana occidentalis																																					
Notoleptopus decaisnei																																					
Panicum decompositum																									x				x				x				
Panicum sp.																														x		x	x				
Paspalidium basicladum																																					x
Paspalidium clementii																																			x		
Paspalidium tabulatum																																					
Paspalidium sp.																																					
Pentalepis trichodesmoides subsp. *hispida* (P2)													x				x																				
Peplidium sp. E Evol. Fl. Fauna Arid Aust. (A.S. Weston 12768)																																					
Pluchea rubelliflora																																					
Pluchea sp.																																	x				
Plumbago zeylanica																																				x	
Poaceae sp.																					x																

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Polycarpaea corymbosa																																			x		x
Polycarpaea holtzei																																					
Polycarpaea longiflora																					x									x							
Polycarpaea sp.																																					
Polymeria ambigua							x																				x								x	x	
Polymeria calycina																																					x
Polymeria mollis									x																												
Portulaca filifolia																																					
Portulaca oleracea							x			x										x	x																
Potamogeton tepperi																																					
Potamogeton ?tepperi																																x					
Pterocaulon sphacelatum																																					
Pterocaulon sphaeranthoides																																					
Ptilotus aervoides										x				x																					x		
Ptilotus astrolasius																																					
Ptilotus auriculifolius																		x	x	x																	x
Ptilotus calostachyus								x																			x										
Ptilotus carinatus										x		x							x						x	x											
Ptilotus clementii																				x																	
Ptilotus exaltatus		x					x		x					x			x	x		x	x		x	x			x	x									
Ptilotus gaudichaudii																												x									x
Ptilotus gomphrenoides																																					
Ptilotus incanus																																					
Ptilotus obovatus																																					
Ptilotus polystachyus																																					
Ptilotus rotundifolius							x																														
Ptilotus schwartzii		x			x																																
Ptilotus sp.																																					
Rhagodia eremaea																																		x			
Rhodanthe margarethae																																					
Rhynchosia bungarensis (P4)																			x		x				x												
Rhynchosia minima						x										x								x		x							x			x	
Rhynchosia ?minima																																					

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Rostellularia adscendens var. *clementii*																																					
Salsola australis																																					
Scaevola spinescens			x																														x			
Schenkia sp.																																					
Schoenoplectus subulatus																													x	x							
Schoenus falcatus																														x							
Sclerolaena gardneri																																	x				
Senna artemisioides																																					
Senna artemisioides subsp. *helmsii*	x																															x		x			
Senna artemisioides subsp. *oligophylla*								x																	x												
Senna glutinosa subsp. *glutinosa*	x	x	x		x									x				x				x	x					x		x							x
Senna glutinosa subsp. *pruinosa*		x			x																																
Senna notabilis						x		x		x						x	x	x			x		x	x	x		x	x									x
Senna ?*notabilis*																																					
Seringia nephrosperma																																					
Sesbania cannabina																																	x				
Sesbania formosa																																					
* *Setaria verticillata*																																					
Sida ?*fibulifera*																																					
Sida echinocarpa									x					x			x				x							x									
Sida rohlenae subsp. *rohlenae*																																					
Sida trichopoda			x																x						x												
Sida sp. Articulation below (A.A. Mitchell PRP 1605)																					x		x														
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		x						x													x		x					x							x		
Sida sp.								x		x																										x		
Solanum cleistogamum																																					x
Solanum diversiflorum																					x														x		x
Solanum lasiophyllum																																		x			
Solanum phlomoides																																					
Solanum sp.				x																										x							
* *Sonchus oleraceus*																																					
Sporobolus actinocladus																																	x				
Sporobolus australasicus										x																											

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Sporobolus sp.																																					
Stemodia grossa																													x			x					
Stemodia kingii																x			x						x	x											
Stemodia sp.						x																											x				
Streptoglossa bubakii												x				x			x						x	x											
Streptoglossa decurrens																																					
Streptoglossa sp.																																					
Stylidium fluminense																														x							
Swainsona formosa																																				x	
Swainsona stenodonta									x					x						x															x		
Synaptantha tillaeacea var. *tillaeacea*																																					
Tephrosia rosea var. *clementii*																														x					x	x	x
Tephrosia supina																					x			x													
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)																																					
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)																																					
Tephrosia sp. clay soils (S. van Leeuwen et al. PBS 0273)																			x																		
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)									x																												
Tephrosia sp.																																					
Terminalia circumalata																														x	x			x	x		x
Themeda triandra									x									x			x											x	x				x
Tinospora smilacina																													x	x							
Trachymene oleracea subsp. *oleracea*																					x																x
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)																																					
Tribulus hirsutus							x																														x
Tribulus platypterus																																					
Tribulus suberosus																	x			x	x																
Tribulus sp.																																					
Trichodesma zeylanicum var. *zeylanicum*																	x							x												x	x
Trigastrotheca molluginea									x														x												x	x	
Triodia angusta																																					
Triodia brizoides																																					
Triodia epactia															x								x														
Triodia wiseana		x	x	x	x		x		x	x	x		x	x	x		x		x	x	x				x			x									

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Triodia ?wiseana	x					x	x	x										x				x		x		x	x								x		
Triodia sp.																															x						x
Triumfetta appendiculata																							x														
Triumfetta clementii							x							x							x			x													
Triumfetta maconochieana																		x				x					x										
Triumfetta propinqua																																					
Triumfetta sp.																																					
Typha domingensis																													x	x	x	x					
* *Vachellia farnesiana*																																					
Vallisneria annua																																					
Vigna lanceolata var. *lanceolata*																																					
Vigna sp.										x																											
Waltheria indica																																			x		

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Species	R059	R070	R074	R078	R082	R093	R095	R110	R111	R113	R114	R115	R117	R123	R124	R126	R127	R129	R132	R136	R138	R139	R146	R148	R150	R151	R153	R155	R159	R165	R167	R168	R175	R176	R178	R179	R180
Abutilon lepidum																			x																	x	
Abutilon sp.																																					
Acacia ampliceps										x				x																							
Acacia ancistrocarpa																							x						x				x				
Acacia arida								x																												x	
Acacia bivenosa		x	x					x	x							x				x	x					x	x				x		x		x	x	
Acacia colei var. *colei*					x																																
Acacia coriacea subsp. *pendens*		x	x	x	x	x	x	x	x	x		x	x	x	x		x	x						x		x			x						x		
Acacia inaequilatera																																	x				
Acacia ligulata																																					
Acacia maitlandii		x				x										x				x			x											x			
Acacia pyrifolia var. *morrisonii*																																					
Acacia pyrifolia var. *pyrifolia*								x			x		x		x				x						x	x	x	x	x			x	x	x			x
Acacia sibina																																					
Acacia trachycarpa										x					x																						
Acacia tumida				x																					x					x	x	x				
Acacia tumida var. *pilbarensis*		x				x		x	x		x					x			x				x	x		x	x	x	x		x		x	x	x		x
Acacia xiphophylla																																					
Acacia sp.																																					
* *Aerva javanica*																																					
Afrohybanthus aurantiacus		x		x												x			x		x					x						x				
Alternanthera nana																																					
Alternanthera nodiflora																																					
Alternanthera sp.								x																													
Alysicarpus muelleri																																					
Amaranthus undulatus																			x																		
Ammannia baccifera										x		x	x				x																				
Amyema sanguinea var. *sanguinea*																																					
Aristida burbidgeae					x	x	x																							x							
Aristida contorta																																					
Aristida holathera																																					
Aristida holathera var. *holathera*																							x														
Aristida latifolia																																					

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Arivela viscosa			x	x	x	x		x	x	x	x		x	x	x	x	x	x		x		x		x		x	x		x								
Asteraceae sp.																																					
Astrebla elymoides																																					
Astrebla pectinata																																					
Atriplex sp.																																					
Austrobryonia pilbarensis																																					
Bergia trimera											x																										
Boerhavia burbidgeana																																					
Boerhavia gardneri																				x																	
Boerhavia sp.								x							x															x							
Bonamia erecta																																					
Bonamia linearis																																					
Bonamia media																				x																	x
Bonamia pannosa																										x											
Boraginaceae sp.																																					
Bothriochloa ewartiana																																			x		
Brachychiton acuminatus	x					x						x	x	x										x												
Bulbostylis barbata																																					
Cajanus cinereus																x			x																	
Calandrinia ptychosperma																																					
Calocephalus ?beardii																																					
Cassytha filiformis																																					
Cassytha sp.		x					x			x				x	x						x				x					x					x	x
* *Cenchrus ciliaris*				x				x		x	x				x									x	x								x			
Centipeda minima										x																											
Cheilanthes sp.																																					
Chrysopogon fallax																																					
Clerodendrum floribundum var. *angustifolium*																																					
Clerodendrum tomentosum var. *lanceolatum*																																					
Commelina ensifolia	x																																				
Convolvulaceae sp.									x																												
Corchorus lasiocarpus subsp. *parvus*																																					
Corchorus ?lasiocarpus																																					

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Corchorus sidoides subsp. *sidoides*																																					
Corchorus walcottii					x			x					x							x		x	x					x			x		x				x
Corchorus sp.																									x												
Corymbia hamersleyana		x						x			x								x	x	x	x			x			x		x	x	x	x	x			x
Crotalaria medicaginea																																					
Crotalaria medicaginea var. *neglecta*									x					x						x																	
Crotalaria novae-hollandiae subsp. *novae-hollandiae*																																					
Crotalaria sp.																																					
Cucumis melo																																					
Cucumis variabilis									x																												
Cucumis sp.							x			x	x	x		x			x					x															
Cullen cinereum																																					
Cullen leucanthum										x		x	x																								
Cullen leucochaites																																			x		
Cullen sp.																																					
Cymbopogon ambiguus	x	x			x	x	x		x	x	x				x		x	x		x	x	x	x								x				x	x	x
Cymbopogon obtectus				x																								x	x			x					
Cymbopogon sp.																																					
Cynanchum floribundum																																					
Cynanchum viminale subsp. *australe*	x	x				x																															
Cynanchum sp.																																					
Cynodon convergens																													x								
* *Cynodon dactylon*																																					
Cyperaceae sp.																																					
Cyperus iria																																					
Cyperus vaginatus	x		x	x	x	x		x	x	x	x	x	x	x	x		x	x						x		x	x		x						x		
Dampiera candicans																																					
Dichanthium sericeum subsp. *humilius*																																					
Dichrostachys spicata																																					
Dicliptera armata				x										x																							
Diplachne fusca subsp. *fusca*										x		x												x													
Dodonaea coriacea																			x																		
Dolichocarpa crouchiana																						x															

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Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)																																					
Dysphania kalpari								x												x						x						x					
Dysphania sp.																										x											
Ehretia saligna var. *saligna*					x	x				x			x									x															
Eleocharis geniculata												x												x													
Enchylaena tomentosa var. *tomentosa*																																					
Enneapogon caerulescens				x																												x					
Enneapogon lindleyanus								x	x	x				x	x				x			x		x		x	x	x						x			
Enneapogon ?lindleyanus																																					
Enneapogon polyphyllus																																					
Eragrostis cumingii			x							x			x																								
Eragrostis elongata																																					
Eragrostis tenellula										x			x																								
Eragrostis sp.																																					
Eremophila forrestii subsp. *forrestii*																							x														
Eremophila longifolia							x																														
Eriachne benthamii					x					x		x	x		x		x	x										x	x						x		
Eriachne ciliata																																					
Eriachne mucronata				x																	x														x		
Eriachne pulchella																																					
Eriachne pulchella subsp. *dominii*																																					
Eriachne sp.																																					
?*Eriachne* sp.						x																	x														
Erythrina vespertilio																																					
Eucalyptus camaldulensis									x	x		x		x																							
Eucalyptus ?camaldulensis																																			x		
Eucalyptus leucophloia subsp. *leucophloia*																							x					x			x				x	x	x
Eucalyptus victrix			x	x	x	x		x	x	x			x	x	x	x		x	x				x	x		x	x	x	x					x	x		
Eucalyptus sp.																																					
Eulalia aurea										x	x			x			x	x									x		x								
Euphorbia australis var. *subtomentosa*			x																																		
Euphorbia boophthona																																					
Euphorbia careyi																										x											

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	R059	R070	R074	R078	R082	R093	R095	R110	R111	R113	R114	R115	R117	R123	R124	R126	R127	R129	R132	R136	R138	R139	R146	R148	R150	R151	R153	R155	R159	R165	R167	R168	R175	R176	R178	R179	R180
Euphorbia coghlanii			x																																		
Euphorbia inappendiculata var. *inappendiculata* (P3)																																					
Euphorbia sp. 1																																					
Euphorbia sp. 2																																					
Euphorbia stevenii (P3)																																					
Euphorbia tannensis subsp. *eremophila*									x																												
Euphorbia trigonosperma					x				x	x	x		x		x					x		x				x											
Euphorbia vaccaria var. *vaccaria*								x																													
Euphorbia sp.																																					
Euploca cunninghamii																																	x				x
Euploca ovalifolia																																					
Euploca skeleton																																					
Evolvulus alsinoides								x																													
Evolvulus alsinoides var. *alsinoides*																																					
Evolvulus alsinoides var. *decumbens*																x																					
Evolvulus alsinoides var. *villosicalyx*																x																					
Evolvulus sp.																																					
Fabaceae sp.																							x														
Ficus aculeata var. *indecora*													x	x			x																				
Ficus ?brachypoda																																					
Fimbristylis dichotoma																																					
* *Flaveria trinervia*										x				x										x													
Flueggea virosa subsp. *melanthesoides*	x	x		x	x	x	x	x	x	x			x	x	x		x	x				x		x			x										
Glinus lotoides																																					
Gomphrena canescens													x																								
Gomphrena cunninghamii																						x							x			x					
?*Gomphrena* sp.																																					
Goodenia lamprosperma								x																			x							x			
Goodenia ?lamprosperma																																					
Goodenia microptera																x																	x				
Goodenia muelleriana																																					
Goodenia scaevolina																																					
Goodenia stobbsiana																																					

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Goodenia sp.																																					
Goodeniaceae sp.																																					
Gossypium australe														x		x																					
Gossypium robinsonii								x	x							x			x									x	x					x		x
Gossypium sp.																																					
Grevillea pyramidalis subsp. *leucadendron*											x																										
Grevillea wickhamii								x											x			x			x			x		x	x			x			
Grevillea sp.																																					
?*Grevillea* sp.																																					
Hakea chordophylla																																					
Hakea ?*chordophylla*																										x											
Hakea lorea																																					
Hakea ?*lorea*		x																																			
Heliotropium crispatum																																					
Heteropogon contortus								x																													
Hibiscus burtonii																																					
Hibiscus sturtii var. *campylochlamys*		x																							x												
Hibiscus verdcourtii																																					
Indigastrum parviflorum																																					
Indigofera colutea																																					
Indigofera linifolia					x			x	x		x												x			x								x	x		
Indigofera monophylla								x												x	x				x	x					x		x				
Indigofera rugosa																																					
Indigofera trita subsp. *trita*																																					
Indigofera sp.																																					
Ipomoea costata																																					
Ipomoea lonchophylla																																					
Ipomoea muelleri				x								x	x				x																				
Ipomoea sp.																																					
Iseilema macrantherum																																					
Iseilema ?*vaginiflorum*																																					
Iseilema sp.																																					
Isotropis atropurpurea																							x					x						x			

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	Species	R059	R070	R074	R078	R082	R093	R095	R110	R111	R113	R114	R115	R117	R123	R124	R126	R127	R129	R132	R136	R138	R139	R146	R148	R150	R151	R153	R155	R159	R165	R167	R168	R175	R176	R178	R179	R180
	Ixiochlamys cuneifolia																																					
	Jasminum didymum subsp. *lineare*		x			x	x	x				x									x	x	x			x												
	Kirganelia baccata														x																							
	Lobelia arnhemiaca										x		x		x			x							x													
	Lotus australis																																					
	Lotus cruentus																								x													
	Ludwigia perennis										x																											
	Malvaceae sp.																																					
*	*Malvastrum americanum*										x																											
	Marsilea hirsuta								x		x				x										x													
	Melaleuca argentea				x										x																					x		
	Melaleuca bracteata																																			x		
	Melaleuca glomerata			x	x				x	x				x	x			x	x																	x		
	Melaleuca linophylla											x													x		x		x									
	Melhania oblongifolia							x																														
*	*Melochia pyramidata*																																					
	Nellica maderaspatensis				x				x	x		x		x						x			x				x		x									
	Neptunia longipila (P2)																																					
	Neurachne muelleri																									x								x				x
	Nicotiana occidentalis																																					
	Notoleptopus decaisnei																																					
	Panicum decompositum											x																										
	Panicum sp.																																					
	Paspalidium basicladum									x																	x											
	Paspalidium clementii																							x														
	Paspalidium tabulatum					x									x																							
	Paspalidium sp.																																					
	Pentalepis trichodesmoides subsp. *hispida* (P2)																																					
	Peplidium sp. E Evol. Fl. Fauna Arid Aust. (A.S. Weston 12768)																																					
	Pluchea rubelliflora				x				x		x		x	x	x			x							x			x		x					x			
	Pluchea sp.															x																						
	Plumbago zeylanica	x																																				
	Poaceae sp.																																					

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Polycarpaea corymbosa										x	x		x		x					x		x															
Polycarpaea holtzei																																					
Polycarpaea longiflora	x							x																x		x						x					
Polycarpaea sp.																																					
Polymeria ambigua								x								x																					x
Polymeria calycina																																					
Polymeria mollis																											x										
Portulaca filifolia																																					
Portulaca oleracea								x																													
Potamogeton tepperi										x							x																				
Potamogeton ?tepperi																																					
Pterocaulon sphacelatum																					x																
Pterocaulon sphaeranthoides																																					
Ptilotus aervoides																																					
Ptilotus astrolasius																																					
Ptilotus auriculifolius					x															x						x										
Ptilotus calostachyus																					x															x	
Ptilotus carinatus																																					
Ptilotus clementii																																					
Ptilotus exaltatus								x			x									x				x													
Ptilotus gaudichaudii								x												x						x											
Ptilotus gomphrenoides																																					
Ptilotus incanus																																					
Ptilotus obovatus																																					
Ptilotus polystachyus																																					
Ptilotus rotundifolius																																					
Ptilotus schwartzii																																					
Ptilotus sp.																																					
Rhagodia eremaea																																					
Rhodanthe margarethae																																					
Rhynchosia bungarensis (P4)		x				x														x				x			x						x				x
Rhynchosia minima	x														x		x														x						
Rhynchosia ?minima																																					

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Species	R059	R070	R074	R078	R082	R093	R095	R110	R111	R113	R114	R115	R117	R123	R124	R126	R127	R129	R132	R136	R138	R139	R146	R148	R150	R151	R153	R155	R159	R165	R167	R168	R175	R176	R178	R179	R180
Rostellularia adscendens var. *clementii*																																					
Salsola australis																																					
Scaevola spinescens																																					
Schenkia sp.																																					
Schoenoplectus subulatus				x						x		x	x	x			x							x					x								
Schoenus falcatus																																					
Sclerolaena gardneri																																					
Senna artemisioides																																					
Senna artemisioides subsp. *helmsii*																					x																
Senna artemisioides subsp. *oligophylla*																																					
Senna glutinosa subsp. *glutinosa*		x																								x		x					x			x	x
Senna glutinosa subsp. *pruinosa*																																				x	
Senna notabilis			x					x			x					x			x	x		x					x					x	x				
Senna ?*notabilis*																																					
Seringia nephrosperma																									x					x							
Sesbania cannabina			x	x				x		x		x	x	x			x	x						x			x		x								
Sesbania formosa																																					
* *Setaria verticillata*										x		x	x	x			x							x													
Sida ?*fibulifera*																																					
Sida echinocarpa																								x		x											
Sida rohlenae subsp. *rohlenae*																																					
Sida trichopoda																																					
Sida sp. Articulation below (A.A. Mitchell PRP 1605)																														x							
Sida sp. Pilbara (A.A. Mitchell PRP 1543)																x														x			x				x
Sida sp.																																x					
Solanum cleistogamum							x		x												x																
Solanum diversiflorum								x			x									x					x												
Solanum lasiophyllum		x																																			
Solanum phlomoides																																					
Solanum sp.																									x												
* *Sonchus oleraceus*														x			x																				
Sporobolus actinocladus																																					
Sporobolus australasicus																																					

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Sporobolus sp.								x																													
Stemodia grossa		x	x	x				x		x	x	x	x	x			x	x						x		x	x		x					x			
Stemodia kingii																																					
Stemodia sp.																																					
Streptoglossa bubakii																																					
Streptoglossa decurrens																																					
Streptoglossa sp.																																					
Stylidium fluminense										x		x		x																							
Swainsona formosa										x	x		x							x					x												
Swainsona stenodonta																																					
Synaptantha tillaeacea var. *tillaeacea*																																					
Tephrosia rosea var. *clementii*			x		x			x	x		x		x		x	x		x						x		x	x		x		x	x	x	x	x		x
Tephrosia supina															x	x			x			x									x	x	x				x
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)																																	x				
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)																																					
Tephrosia sp. clay soils (S. van Leeuwen et al. PBS 0273)																																					
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)																																					
Tephrosia sp.																																					
Terminalia circumalata	x	x			x	x	x	x	x	x		x	x		x		x	x						x													
Themeda triandra								x											x		x		x	x				x			x						
Tinospora smilacina							x															x		x					x								
Trachymene oleracea subsp. *oleracea*		x	x																x													x				
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)																																					
Tribulus hirsutus																				x						x											
Tribulus platypterus																										x											
Tribulus suberosus																				x	x	x															
Tribulus sp.																																					
Trichodesma zeylanicum var. *zeylanicum*								x			x			x						x					x												
Trigastrotheca molluginea																																					
Triodia angusta																																					
Triodia brizoides																																					
Triodia epactia						x									x	x																	x				
Triodia wiseana	x	x						x			x												x		x			x			x		x			x	x

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Species	R059	R070	R074	R078	R082	R093	R095	R110	R111	R113	R114	R115	R117	R123	R124	R126	R127	R129	R132	R136	R138	R139	R146	R148	R150	R151	R153	R155	R159	R165	R167	R168	R175	R176	R178	R179	R180
Triodia ?wiseana																			x	x	x	x		x		x	x	x				x		x			
Triodia sp.																										x				x				x			
Triumfetta appendiculata														x																							
Triumfetta clementii									x		x									x							x										
Triumfetta maconochieana																			x									x					x				
Triumfetta propinqua																																					
Triumfetta sp.																																					
Typha domingensis				x						x			x	x			x							x					x								
* *Vachellia farnesiana*									x																												
Vallisneria annua																	x																				
Vigna lanceolata var. *lanceolata*																								x													
Vigna sp.																																					
Waltheria indica											x					x									x												

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Species	R186	R187	R193	R197	R198	R211	R212	R217	R218	R224	R225	R227	R233	R309	R312	R313	R409	R412
Abutilon lepidum		x				x					x							x
Abutilon sp.																		
Acacia ampliceps				x				x										
Acacia ancistrocarpa																		
Acacia arida																		
Acacia bivenosa	x		x		x		x		x	x				x		x		
Acacia colei var. *colei*																		
Acacia coriacea subsp. *pendens*				x	x			x				x			x	x	x	
Acacia inaequilatera						x												
Acacia ligulata																		
Acacia maitlandii																		
Acacia pyrifolia var. *morrisonii*																		
Acacia pyrifolia var. *pyrifolia*	x	x	x	x	x			x	x			x		x			x	
Acacia sibina																		
Acacia trachycarpa															x			
Acacia tumida			x															
Acacia tumida var. *pilbarensis*	x	x			x	x			x	x	x	x	x	x			x	x
Acacia xiphophylla																		
Acacia sp.												x						
* *Aerva javanica*																		
Afrohybanthus aurantiacus	x	x				x									x			x
Alternanthera nana																		
Alternanthera nodiflora										x	x				x			
Alternanthera sp.																		
Alysicarpus muelleri										x								
Amaranthus undulatus																		
Ammannia baccifera																		
Amyema sanguinea var. *sanguinea*																		
Aristida burbidgeae																		
Aristida contorta																		
Aristida holathera																		
Aristida holathera var. *holathera*																		
Aristida latifolia							x											

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	Species	R186	R187	R193	R197	R198	R211	R212	R217	R218	R224	R225	R227	R233	R309	R312	R313	R409	R412
	Arivela viscosa			x	x	x			x		x		x					x	x
	Asteraceae sp.																		
	Astrebla elymoides																		
	Astrebla pectinata																		
	Atriplex sp.																		
	Austrobryonia pilbarensis																		
	Bergia trimera																		
	Boerhavia burbidgeana																		
	Boerhavia gardneri									x									
	Boerhavia sp.								x		x								
	Bonamia erecta											x							
	Bonamia linearis																		
	Bonamia media																		
	Bonamia pannosa														x				
	Boraginaceae sp.																		
	Bothriochloa ewartiana																	x	
	Brachychiton acuminatus																		
	Bulbostylis barbata																		
	Cajanus cinereus									x									
	Calandrinia ptychosperma																		
	Calocephalus ?beardii																		
	Cassytha filiformis																		
	Cassytha sp.	x	x		x														
*	*Cenchrus ciliaris*								x		x		x	x		x			
	Centipeda minima															x			
	Cheilanthes sp.																		
	Chrysopogon fallax																		
	Clerodendrum floribundum var. *angustifolium*																		
	Clerodendrum tomentosum var. *lanceolatum*																		
	Commelina ensifolia																		
	Convolvulaceae sp.										x								
	Corchorus lasiocarpus subsp. *parvus*																		
	Corchorus ?lasiocarpus																		

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Corchorus sidoides subsp. *sidoides*																		
Corchorus walcottii		x				x			x		x		x					x
Corchorus sp.																		
Corymbia hamersleyana	x	x	x			x			x	x								
Crotalaria medicaginea																		
Crotalaria medicaginea var. *neglecta*																	x	
Crotalaria novae-hollandiae subsp. *novae-hollandiae*																		
Crotalaria sp.																		
Cucumis melo																		
Cucumis variabilis																		
Cucumis sp.											x							
Cullen cinereum																		
Cullen leucanthum																		
Cullen leucochaites										x								
Cullen sp.																		
Cymbopogon ambiguus	x	x			x	x			x			x			x		x	x
Cymbopogon obtectus					x													
Cymbopogon sp.																		
Cynanchum floribundum																		
Cynanchum viminale subsp. *australe*																		
Cynanchum sp.																		
Cynodon convergens																		
* *Cynodon dactylon*																		
Cyperaceae sp.																		
Cyperus iria																		
Cyperus vaginatus				x	x		x	x	x	x		x		x	x	x	x	
Dampiera candicans																		
Dichanthium sericeum subsp. *humilius*																		
Dichrostachys spicata																		
Dicliptera armata																		
Diplachne fusca subsp. *fusca*																x		
Dodonaea coriacea																		
Dolichocarpa crouchiana																		

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	R186	R187	R193	R197	R198	R211	R212	R217	R218	R224	R225	R227	R233	R309	R312	R313	R409	R412
Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)																		
Dysphania kalpari						x				x								
Dysphania sp.																		
Ehretia saligna var. *saligna*															x			
Eleocharis geniculata																		
Enchylaena tomentosa var. *tomentosa*																		
Enneapogon caerulescens																		
Enneapogon lindleyanus					x	x						x						x
Enneapogon ?lindleyanus																		
Enneapogon polyphyllus																		
Eragrostis cumingii																	x	
Eragrostis elongata																		
Eragrostis tenellula																	x	
Eragrostis sp.																		
Eremophila forrestii subsp. *forrestii*																		
Eremophila longifolia																		
Eriachne benthamii				x							x			x		x		
Eriachne ciliata																		
Eriachne mucronata																		
Eriachne pulchella																		
Eriachne pulchella subsp. *dominii*																		
Eriachne sp.												x						
?*Eriachne* sp.		x							x								x	
Erythrina vespertilio																	x	
Eucalyptus camaldulensis								x						x				
Eucalyptus ?camaldulensis																		
Eucalyptus leucophloia subsp. *leucophloia*																		x
Eucalyptus victrix	x	x		x	x		x					x			x	x	x	x
Eucalyptus sp.																		
Eulalia aurea					x												x	
Euphorbia australis var. *subtomentosa*																		
Euphorbia boophthona																		
Euphorbia careyi																		

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	R186	R187	R193	R197	R198	R211	R212	R217	R218	R224	R225	R227	R233	R309	R312	R313	R409	R412
Euphorbia coghlanii							x											
Euphorbia inappendiculata var. *inappendiculata* (P3)																		
Euphorbia sp. 1																		
Euphorbia sp. 2																		
Euphorbia stevenii (P3)																		
Euphorbia tannensis subsp. *eremophila*																		
Euphorbia trigonosperma						x		x				x		x				
Euphorbia vaccaria var. *vaccaria*										x	x							
Euphorbia sp.																		
Euploca cunninghamii																		
Euploca ovalifolia																		
Euploca skeleton																		
Evolvulus alsinoides													x					x
Evolvulus alsinoides var. *alsinoides*		x																
Evolvulus alsinoides var. *decumbens*																		
Evolvulus alsinoides var. *villosicalyx*																		
Evolvulus sp.			x															
Fabaceae sp.																		
Ficus aculeata var. *indecora*																		
Ficus ?*brachypoda*																		
Fimbristylis dichotoma																		
* *Flaveria trinervia*														x				
Flueggea virosa subsp. *melanthesoides*										x					x			
Glinus lotoides																		
Gomphrena canescens																		
Gomphrena cunninghamii																		
?*Gomphrena* sp.																		
Goodenia lamprosperma						x								x			x	
Goodenia ?*lamprosperma*																		
Goodenia microptera			x							x								
Goodenia muelleriana																		
Goodenia scaevolina																		
Goodenia stobbsiana																		

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	R186	R187	R193	R197	R198	R211	R212	R217	R218	R224	R225	R227	R233	R309	R312	R313	R409	R412
Goodenia sp.																		
Goodeniaceae sp.																		
Gossypium australe	x					x			x	x	x		x				x	x
Gossypium robinsonii							x			x								
Gossypium sp.					x													
Grevillea pyramidalis subsp. *leucadendron*		x									x		x					
Grevillea wickhamii	x	x	x															
Grevillea sp.																		
?*Grevillea* sp.																		
Hakea chordophylla																		
Hakea ?*chordophylla*																		
Hakea lorea						x						x						
Hakea ?*lorea*																		
Heliotropium crispatum																		
Heteropogon contortus																		
Hibiscus burtonii											x							
Hibiscus sturtii var. *campylochlamys*																		
Hibiscus verdcourtii																		
Indigastrum parviflorum																		
Indigofera colutea													x					
Indigofera linifolia			x							x		x					x	
Indigofera monophylla						x					x							x
Indigofera rugosa									x									
Indigofera trita subsp. *trita*																		
Indigofera sp.																		
Ipomoea costata																		
Ipomoea lonchophylla																		
Ipomoea muelleri																		
Ipomoea sp.																		
Iseilema macrantherum																		
Iseilema ?*vaginiflorum*																		
Iseilema sp.																		
Isotropis atropurpurea																		

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

	Species	R186	R187	R193	R197	R198	R211	R212	R217	R218	R224	R225	R227	R233	R309	R312	R313	R409	R412
	Ixiochlamys cuneifolia																		
	Jasminum didymum subsp. *lineare*	x																	
	Kirganelia baccata																		
	Lobelia arnhemiaca																x		
	Lotus australis																		
	Lotus cruentus																		
	Ludwigia perennis																		
	Malvaceae sp.												x	x					
*	*Malvastrum americanum*												x		x			x	
	Marsilea hirsuta							x			x					x		x	
	Melaleuca argentea								x										
	Melaleuca bracteata								x										
	Melaleuca glomerata				x				x										
	Melaleuca linophylla				x			x			x					x	x		
	Melhania oblongifolia																		
*	*Melochia pyramidata*										x								
	Nellica maderaspatensis								x		x	x			x				
	Neptunia longipila (P2)																		
	Neurachne muelleri	x	x											x					
	Nicotiana occidentalis										x								
	Notoleptopus decaisnei																		
	Panicum decompositum															x		x	
	Panicum sp.												x						
	Paspalidium basicladum										x								
	Paspalidium clementii																		
	Paspalidium tabulatum																		
	Paspalidium sp.																		
	Pentalepis trichodesmoides subsp. *hispida* (P2)																		
	Peplidium sp. E Evol. Fl. Fauna Arid Aust. (A.S. Weston 12768)																x		
	Pluchea rubelliflora														x	x		x	
	Pluchea sp.																		
	Plumbago zeylanica																		
	Poaceae sp.																		

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	R186	R187	R193	R197	R198	R211	R212	R217	R218	R224	R225	R227	R233	R309	R312	R313	R409	R412
Polycarpaea corymbosa		x																
Polycarpaea holtzei																		
Polycarpaea longiflora						x												x
Polycarpaea sp.																		
Polymeria ambigua																	x	
Polymeria calycina																		
Polymeria mollis																		
Portulaca filifolia																		
Portulaca oleracea										x			x					
Potamogeton tepperi																		
Potamogeton ?tepperi																		
Pterocaulon sphacelatum														x				
Pterocaulon sphaeranthoides																		
Ptilotus aervoides																		
Ptilotus astrolasius																		
Ptilotus auriculifolius		x																
Ptilotus calostachyus		x																
Ptilotus carinatus																		
Ptilotus clementii																		
Ptilotus exaltatus		x				x							x					x
Ptilotus gaudichaudii																		x
Ptilotus gomphrenoides																		
Ptilotus incanus																		
Ptilotus obovatus																		
Ptilotus polystachyus																		
Ptilotus rotundifolius																		
Ptilotus schwartzii																		
Ptilotus sp.																		
Rhagodia eremaea																		
Rhodanthe margarethae																		
Rhynchosia bungarensis (P4)		x			x	x			x			x	x				x	x
Rhynchosia minima							x			x								
Rhynchosia ?minima																		

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

	Species	R186	R187	R193	R197	R198	R211	R212	R217	R218	R224	R225	R227	R233	R309	R312	R313	R409	R412
	Rostellularia adscendens var. *clementii*										x								
	Salsola australis																		
	Scaevola spinescens																		
	Schenkia sp.																		
	Schoenoplectus subulatus																x		
	Schoenus falcatus																		
	Sclerolaena gardneri																		
	Senna artemisioides																		
	Senna artemisioides subsp. *helmsii*																		
	Senna artemisioides subsp. *oligophylla*																		
	Senna glutinosa subsp. *glutinosa*	x	x																
	Senna glutinosa subsp. *pruinosa*																		
	Senna notabilis		x	x			x	x		x	x	x	x					x	x
	Senna ?*notabilis*																		
	Seringia nephrosperma																		
	Sesbania cannabina										x		x				x	x	
	Sesbania formosa																		
*	*Setaria verticillata*																		
	Sida ?*fibulifera*																		
	Sida echinocarpa																		
	Sida rohlenae subsp. *rohlenae*																		
	Sida trichopoda																		
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)																		
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)	x													x				
	Sida sp.											x							
	Solanum cleistogamum																		
	Solanum diversiflorum		x									x						x	x
	Solanum lasiophyllum																		
	Solanum phlomoides																		
	Solanum sp.									x	x								
*	*Sonchus oleraceus*																		
	Sporobolus actinocladus																		
	Sporobolus australasicus																		

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	R186	R187	R193	R197	R198	R211	R212	R217	R218	R224	R225	R227	R233	R309	R312	R313	R409	R412
Sporobolus sp.																		
Stemodia grossa							x			x				x	x	x	x	
Stemodia kingii																		
Stemodia sp.																		
Streptoglossa bubakii																		
Streptoglossa decurrens																		
Streptoglossa sp.																		
Stylidium fluminense																		
Swainsona formosa																		
Swainsona stenodonta																		
Synaptantha tillaeacea var. *tillaeacea*																		
Tephrosia rosea var. *clementii*		x	x	x	x		x	x	x	x				x	x		x	
Tephrosia supina						x						x	x					
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)																		
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)																		
Tephrosia sp. clay soils (S. van Leeuwen et al. PBS 0273)																		
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)																		
Tephrosia sp.																		
Terminalia circumalata																		x
Themeda triandra		x			x	x					x	x	x				x	x
Tinospora smilacina																		
Trachymene oleracea subsp. *oleracea*																		x
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)																		
Tribulus hirsutus																		
Tribulus platypterus																		
Tribulus suberosus																		
Tribulus sp.																		
Trichodesma zeylanicum var. *zeylanicum*	x											x					x	
Trigastrotheca molluginea																		
Triodia angusta																		
Triodia brizoides																		
Triodia epactia	x			x													x	
Triodia wiseana		x							x				x			x		

APPENDIX E: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY SURVEY SITE, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-); Oppo - denotes opportunistically recorded taxon

Species	R186	R187	R193	R197	R198	R211	R212	R217	R218	R224	R225	R227	R233	R309	R312	R313	R409	R412
Triodia ?wiseana			x		x	x												x
Triodia sp.																		
Triumfetta appendiculata																		
Triumfetta clementii		x							x		x				x			
Triumfetta maconochieana																		x
Triumfetta propinqua																		
Triumfetta sp.																		
Typha domingensis																		
* *Vachellia farnesiana*										x								
Vallisneria annua																		
Vigna lanceolata var. *lanceolata*																		
Vigna sp.															x			
Waltheria indica											x		x					

APPENDIX F: INTRODUCED TAXA RECORDS WITHIN THE SURVEY AREA, 2024

Site	Weed Species	Coordinates (MGA94 z50)		Abundance
		Easting (m)	Northing (m)	
Q243	* *Aerva javanica*	505627	7633623	2
Q163	* *Cenchrus ciliaris*	487070	7639591	-
Q202	* *Cenchrus ciliaris*	486543	7636722	-
R124	* *Cenchrus ciliaris*	499543	7642010	-
R148	* *Cenchrus ciliaris*	498700	7640862	-
R239	* *Cenchrus ciliaris*	486003	7633953	-
R242	* *Cenchrus ciliaris*	505565	7633803	20
R222	* *Cenchrus ciliaris*	498245	7635158	-
R079	* *Cenchrus ciliaris*	499495	7647749	-
R232	* *Cenchrus ciliaris*	485312	7634382	-
R113	* *Cenchrus ciliaris*	494824	7642910	-
Q216	* *Cenchrus ciliaris*	504742	7635577	-
R228	* *Cenchrus ciliaris*	500785	7634909	-
R150	* *Cenchrus ciliaris*	481986	7640682	-
R175	* *Cenchrus ciliaris*	493264	7638952	-
R248	* *Cenchrus ciliaris*	503804	7633317	-
Q218	* *Cenchrus ciliaris*	503583	7635532	-
Q109	* *Cenchrus ciliaris*	497289	7643481	-
R212	* *Cenchrus ciliaris*	505569	7635704	100
Q215	* *Cynodon dactylon*	493219	7635585	-
R148	* *Flaveria trinervia*	498700	7640862	5
R123	* *Flaveria trinervia*	494049	7642034	-
R113	* *Flaveria trinervia*	494824	7642910	-
R210	* *Flaveria trinervia*	498767	7636091	-
R044	* *Flaveria trinervia*	491315	7653265	-
OPPO	* *Flaveria trinervia*	498699	7642419	-
R242	* *Malvastrum americanum*	505565	7633803	100
R211	* *Malvastrum americanum*	504457	7635719	-
R113	* *Malvastrum americanum*	494824	7642910	-
Q147	* *Malvastrum americanum*	479509	7640904	10
R210	* *Malvastrum americanum*	498767	7636091	-
R239	* *Melochia pyramidata*	486003	7633953	-
Q049	* *Setaria verticillata*	488492	7652440	10
R117	* *Setaria verticillata*	499030	7642254	-
R148	* *Setaria verticillata*	498700	7640862	-
R123	* *Setaria verticillata*	494049	7642034	-
R115	* *Setaria verticillata*	498515	7642428	-
R113	* *Setaria verticillata*	494824	7642910	-
R127	* *Setaria verticillata*	493741	7641765	-
R123	* *Sonchus oleraceus*	494049	7642034	-
R127	* *Sonchus oleraceus*	493741	7641765	-
Q105	* *Sonchus oleraceus*	490960	7643939	-
OPPO	* *Sonchus oleraceus*	498696	7642423	-
Q058	* *Vachellia farnesiana*	480908	7651030	-
R239	* *Vachellia farnesiana*	486003	7633953	-
R111	* *Vachellia farnesiana*	480122	7643414	-
Q147	* *Vachellia farnesiana*	479509	7640904	15

APPENDIX G: CONSERVATION SIGNIFICANT FLORA RECORDED WITHIN THE SURVEY AREA, 2024

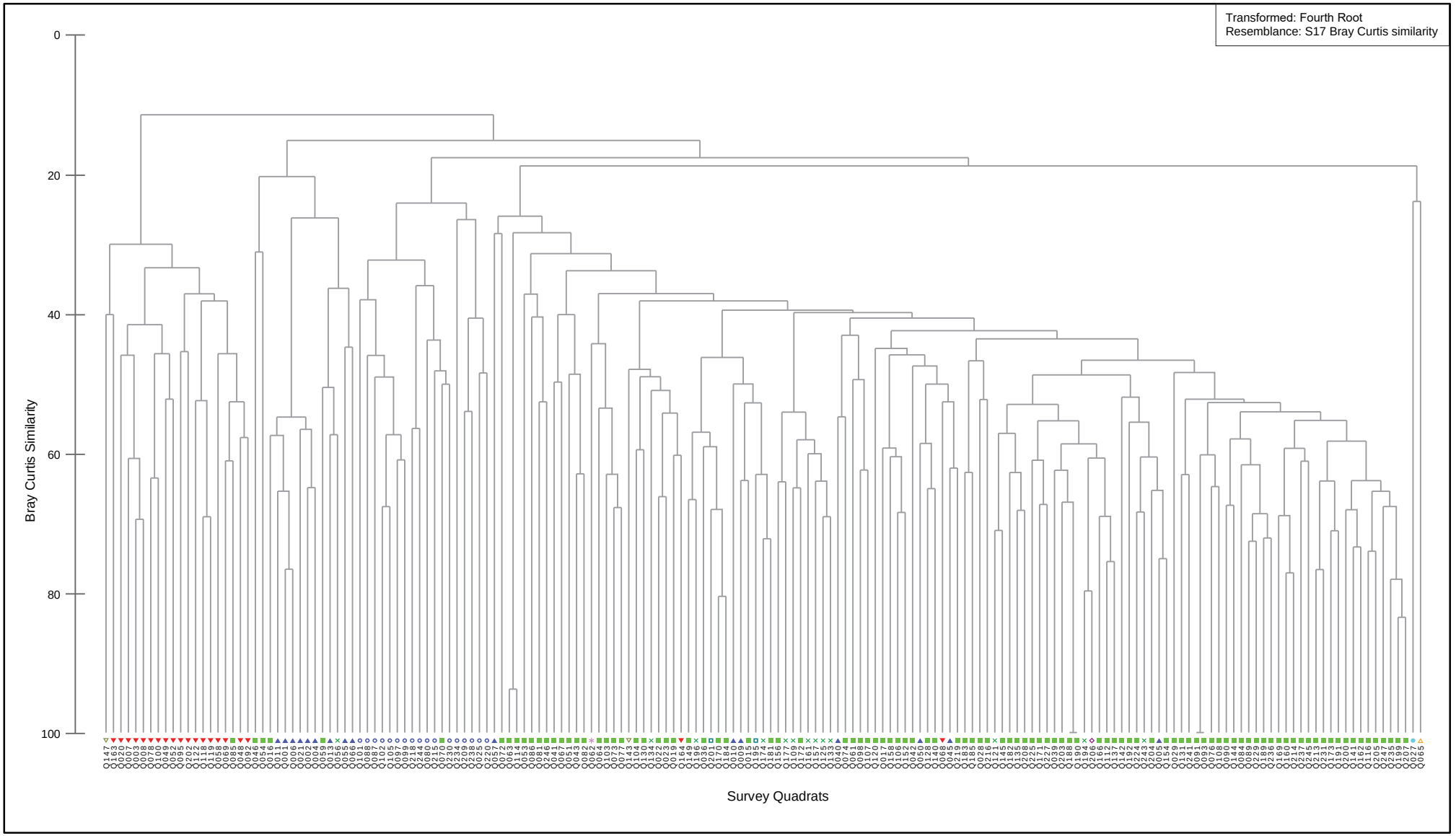
Notes: * denotes introduced species; T denotes threatened flora and P1-P4 denote priority flora species (DBCA2024d, WAH 1998-)

Taxon	Coordinates (GDA94, Zone 50)		Abundance
	Easting (mE)	Northing (mN)	
Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)	480866	7646001	200
Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)	486274	7634713	30
Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)	486274	7634713	20
Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)	480808	7646011	250
Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)	489086	7635485	2
Euphorbia inappendiculata var. *inappendiculata* (P3)	486274	7634713	4
Euphorbia inappendiculata var. *inappendiculata* (P3)	505334	7633441	1
Euphorbia stevenii (P3)	487733	7645851	1
Euphorbia stevenii (P3)	489996	7645496	1
Euphorbia stevenii (P3)	496950	7644041	1
Neptunia longipila (P2)	489306	7636213	50
Neptunia longipila (P2)	492556	7634013	1
Neptunia longipila (P2)	489047	7635684	1
Neptunia longipila (P2)	504568	7635632	10
Neptunia longipila (P2)	504600	7635619	20
Neptunia longipila (P2)	504634	7635599	25
Neptunia longipila (P2)	496020	7634382	50
Neptunia longipila (P2)	505351	7633422	12
Neptunia longipila (P2)	493849	7645275	2
Neptunia longipila (P2)	505334	7633441	6
Neptunia longipila (P2)	489086	7635485	1
Pentalepis trichodesmoides subsp. *hispida* (P2)	498859	7645617	1
Pentalepis trichodesmoides subsp. *hispida* (P2)	485517	7634249	12
Pentalepis trichodesmoides subsp. *hispida* (P2)	485543	7634206	14
Pentalepis trichodesmoides subsp. *hispida* (P2)	485656	7634196	1
Pentalepis trichodesmoides subsp. *hispida* (P2)	485692	7634198	1
Pentalepis trichodesmoides subsp. *hispida* (P2)	485756	7634178	2
Pentalepis trichodesmoides subsp. *hispida* (P2)	485864	7634191	5
Pentalepis trichodesmoides subsp. *hispida* (P2)	496297	7635597	40
Pentalepis trichodesmoides subsp. *hispida* (P2)	496209	7635573	1
Pentalepis trichodesmoides subsp. *hispida* (P2)	499451	7636335	1
Pentalepis trichodesmoides subsp. *hispida* (P2)	494483	7633688	1
Pentalepis trichodesmoides subsp. *hispida* (P2)	494564	7633847	2
Pentalepis trichodesmoides subsp. *hispida* (P2)	489187	7648960	3
Pentalepis trichodesmoides subsp. *hispida* (P2)	485792	7634218	1
Pentalepis trichodesmoides subsp. *hispida* (P2)	494629	7633814	4
Rhynchosia bungarensis (P4)	484758	7645070	1
Rhynchosia bungarensis (P4)	498700	7640862	1
Rhynchosia bungarensis (P4)	498533	7640611	1
Rhynchosia bungarensis (P4)	489675	7636864	1
Rhynchosia bungarensis (P4)	496547	7635562	1
Rhynchosia bungarensis (P4)	499979	7635027	1
Rhynchosia bungarensis (P4)	505565	7633803	1
Rhynchosia bungarensis (P4)	503661	7633370	1
Rhynchosia bungarensis (P4)	503685	7633343	3
Rhynchosia bungarensis (P4)	503831	7633328	3
Rhynchosia bungarensis (P4)	487560	7647642	1
Rhynchosia bungarensis (P4)	481153	7649340	1
Rhynchosia bungarensis (P4)	503663	7633400	1
Rhynchosia bungarensis (P4)	503804	7633317	1
Rhynchosia bungarensis (P4)	503583	7635532	1
Rhynchosia bungarensis (P4)	505334	7633441	12

APPENDIX G: CONSERVATION SIGNIFICANT FLORA RECORDED WITHIN THE SURVEY AREA, 2024

Notes: * denotes introduced species; T denotes threatened flora and P1-P4 denote priority flora species (DBCA2024d, WAH 1998-)

Taxon	Coordinates (GDA94, Zone 50)		Abundance
	Easting (mE)	Northing (mN)	
Rhynchosia bungarensis (P4)	480889	7641146	1
Rhynchosia bungarensis (P4)	483168	7648845	1
Rhynchosia bungarensis (P4)	487070	7639591	1
Rhynchosia bungarensis (P4)	498979	7645548	1
Rhynchosia bungarensis (P4)	485609	7641374	1
Rhynchosia bungarensis (P4)	488244	7638686	1
Rhynchosia bungarensis (P4)	490416	7638952	4
Rhynchosia bungarensis (P4)	488672	7634341	2
Rhynchosia bungarensis (P4)	504457	7635719	3
Rhynchosia bungarensis (P4)	504742	7635577	1
Rhynchosia bungarensis (P4)	495389	7637709	10
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023)	491166	7653387	24
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023)	491175	7653372	16
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023)	491175	7653352	21
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023)	491201	7653346	1
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023)	491239	7653293	6
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023)	485351	7634570	27
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023)	485350	7634548	29
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023)	485368	7634565	18
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023)	491122	7653415	4



▲ S1 ▼ C1 ■ G1 ● S2 × W1

✳ B1 △ C5 ▽ C6 ■ W3 ◇ W2 ○ G2

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Yindjibarndi Renewable Energy Corporation

Hierarchical Cluster of Floristic Community Types

Group Average

Appendix

H

APPENDIX I: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY VEGETATION COMMUNITY, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-);
Oppo - denotes opportunistically recorded taxon

Species	B1	C1	C2	C3	C4	C5	C6	G1	G2	S1	S2	W1	W2	W3	OPPO
Abutilon lepidum		x					x	x		x		x			
Abutilon sp.								x					x		
Acacia ampliceps		x	x	x	x										
Acacia ancistrocarpa		x	x				x	x		x		x		x	
Acacia arida		x					x	x		x		x	x		
Acacia bivenosa		x		x			x	x	x	x		x	x	x	
Acacia colei var. *colei*		x													x
Acacia coriacea subsp. *pendens*	x	x	x	x	x	x	x	x			x				
Acacia inaequilatera							x	x	x	x		x			
Acacia ligulata											x				
Acacia maitlandii		x					x	x		x		x			
Acacia pyrifolia var. *morrisonii*								x							
Acacia pyrifolia var. *pyrifolia*		x	x	x			x	x	x	x		x	x	x	
Acacia sibina								x				x		x	
Acacia trachycarpa		x	x		x										
Acacia tumida		x	x					x				x			
Acacia tumida var. *pilbarensis*		x	x	x			x	x	x	x		x	x		
Acacia xiphophylla											x				
Acacia sp.		x						x							
**Aerva javanica*		x										x			
Afrohybanthus aurantiacus		x	x	x			x	x		x					
Alternanthera nana		x					x					x			
Alternanthera nodiflora		x						x							
Alternanthera sp.													x		
Alysicarpus muelleri		x						x	x	x					
Amaranthus undulatus		x					x			x					
Ammannia baccifera		x		x	x										
Amyema sanguinea var. *sanguinea*		x													x
Aristida burbidgeae	x	x						x							
Aristida contorta							x	x		x					
Aristida holathera								x							
Aristida holathera var. *holathera*							x	x							
Aristida latifolia		x						x	x						
Arivela viscosa	x	x	x	x	x	x	x	x	x	x		x			
Asteraceae sp.								x	x	x					
Astrebla elymoides									x						
Astrebla pectinata									x						
Atriplex sp.											x				
Austrobryonia pilbarensis									x						
Bergia trimera								x							
Boerhavia burbidgeana							x	x							
Boerhavia gardneri		x	x					x	x						
Boerhavia sp.		x	x					x	x	x		x	x		
Bonamia erecta								x				x			
Bonamia linearis		x													
Bonamia media		x					x	x	x						
Bonamia pannosa		x					x	x	x	x		x	x		
Boraginaceae sp.		x													
Bothriochloa ewartiana		x													

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Species	B1	C1	C2	C3	C4	C5	C6	G1	G2	S1	S2	W1	W2	W3	OPPO
Brachychiton acuminatus	x	x	x	x		x				x					x
Bulbostylis barbata								x		x					
Cajanus cinereus							x	x							
Calandrinia ptychosperma										x					
Calocephalus ?*beardii*								x							
Cassytha filiformis		x						x							
Cassytha sp.	x	x	x	x	x		x	x				x			
**Cenchrus ciliaris*		x	x		x			x	x		x	x	x		
Centipeda minima		x			x										
Cheilanthes sp.										x					
Chrysopogon fallax								x	x						
Clerodendrum floribundum var. *angustifolium*								x							
Clerodendrum tomentosum var. *lanceolatum*								x							
Commelina ensifolia						x			x						
Convolvulaceae sp.		x		x				x	x	x					
Corchorus lasiocarpus subsp. *parvus*							x	x							
Corchorus ?l*asiocarpus*								x		x					
Corchorus sidoides subsp. *sidoides*		x						x		x					
Corchorus walcottii		x					x	x	x	x		x	x		
Corchorus sp.		x						x		x		x			
Corymbia hamersleyana		x	x				x	x		x		x	x	x	
Crotalaria medicaginea									x						
Crotalaria medicaginea var. *neglecta*		x	x	x				x		x					
Crotalaria novae-hollandiae subsp*. novae-hollandiae*								x	x						
Crotalaria sp.									x						
Cucumis melo									x						
Cucumis variabilis				x											
Cucumis sp.	x		x	x	x	x		x							
Cullen cinereum									x						
Cullen leucanthum		x		x	x					x					
Cullen leucochaites		x						x							x
Cullen sp.										x					
Cymbopogon ambiguus	x	x	x	x	x	x	x	x		x		x			
Cymbopogon obtectus		x	x				x	x	x						
Cymbopogon sp.						x									
Cynanchum floribundum								x							
Cynanchum viminale subsp*. australe*		x				x		x							x
Cynanchum sp.										x					
Cynodon convergens		x							x						
**Cynodon dactylon*									x						
Cyperaceae sp.		x						x		x					
Cyperus iria										x					
Cyperus vaginatus		x	x	x	x	x	x	x		x					
Dampiera candicans								x		x		x			
Dichanthium sericeum subsp. *humilius*									x						
Dichrostachys spicata								x							
Dicliptera armata			x												
Diplachne fusca subsp. *fusca*		x		x	x			x		x					
Dodonaea coriacea							x	x		x		x			

APPENDIX I: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY VEGETATION COMMUNITY, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-);
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Species	B1	C1	C2	C3	C4	C5	C6	G1	G2	S1	S2	W1	W2	W3	OPPO
Dolichocarpa crouchiana		x						x	x	x		x			x
Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3)									x						x
Dysphania kalpari		x						x	x	x		x			
Dysphania sp.		x						x							
Ehretia saligna var. *saligna*		x	x		x			x				x			x
Eleocharis geniculata		x	x	x											
Enchylaena tomentosa var. *tomentosa*											x				
Enneapogon caerulescens			x					x	x						
Enneapogon lindleyanus		x	x	x	x		x	x				x	x		
Enneapogon ?lindleyanus			x												
Enneapogon polyphyllus								x	x						
Eragrostis cumingii		x			x										
Eragrostis elongata		x													
Eragrostis tenellula		x			x					x					
Eragrostis sp.		x								x					
Eremophila forrestii subsp. *forrestii*							x	x							
Eremophila longifolia	x	x					x					x			
Eriachne benthamii		x		x	x		x	x				x			
Eriachne ciliata								x		x					
Eriachne mucronata		x	x					x				x			
Eriachne pulchella		x						x							
Eriachne pulchella subsp. dominii		x						x		x					
Eriachne sp.		x						x							
?*Eriachne* sp.		x					x	x							
Erythrina vespertilio		x						x							x
Eucalyptus camaldulensis			x	x	x		x								
Eucalyptus ?camaldulensis		x	x												
Eucalyptus leucophloia subsp. *leucophloia*		x					x	x		x		x		x	
Eucalyptus victrix		x	x	x	x		x	x		x		x			
Eucalyptus sp.		x	x												
Eulalia aurea		x	x	x	x		x	x							
Euphorbia australis var. *subtomentosa*		x						x		x					
Euphorbia boophthona		x						x							
Euphorbia careyi		x		x				x		x					
Euphorbia coghlanii		x				x		x		x					
Euphorbia inappendiculata var. *inappendiculata (P3)*									x						
Euphorbia stevenii (P3)		x						x	x						
Euphorbia tannensis subsp. *eremophila*				x				x		x					
Euphorbia trigonosperma		x	x	x	x		x	x	x	x		x			
Euphorbia vaccaria var. *vaccaria*		x					x	x		x			x		
Euphorbia sp.										x					
Euphorbia sp. 1		x													
Euphorbia sp. 2		x													
Euploca cunninghamii		x						x		x					
Euploca ovalifolia									x	x					
Euploca skeleton								x							
Evolvulus alsinoides		x					x	x					x		

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Species	B1	C1	C2	C3	C4	C5	C6	G1	G2	S1	S2	W1	W2	W3	OPPO
Evolvulus alsinoides var. *alsinoides*								x							
Evolvulus alsinoides var. *decumbens*								x							
Evolvulus alsinoides var. *villosicalyx*		x						x		x					
Evolvulus sp.								x							
Fabaceae sp.		x					x	x	x	x					
Ficus aculeata var. *indecora*		x	x		x										
Ficus ?*brachypoda*			x												x
Fimbristylis dichotoma								x							
**Flaveria trinervia*		x	x		x		x			x					x
Flueggea virosa subsp. *melanthesoides*	x	x	x	x	x	x		x		x					
Glinus lotoides								x							
Gomphrena canescens		x						x		x					
Gomphrena cunninghamii		x					x	x		x		x			
?*Gomphrena* sp.										x					
Goodenia lamprosperma		x					x	x		x		x	x		
Goodenia ?*lamprosperma*		x													
Goodenia microptera		x						x		x		x			
Goodenia muelleriana								x	x						
Goodenia scaevolina		x	x					x				x			
Goodenia stobbsiana								x							x
Goodenia sp.										x					
Goodeniaceae sp.		x								x					
Gossypium australe		x	x	x				x							
Gossypium robinsonii		x		x		x	x	x		x					
Gossypium sp.							x								
Grevillea pyramidalis subsp. *leucadendron*		x					x	x		x		x		x	
Grevillea wickhamii		x					x	x		x		x	x	x	
Grevillea sp.			x												
?*Grevillea* sp.		x													
Hakea chordophylla								x	x	x		x		x	
Hakea ?*chordophylla*		x						x				x			
Hakea lorea		x						x	x	x		x			
Hakea ?*lorea*								x							
Heliotropium crispatum									x						
Heteropogon contortus													x		
Hibiscus burtonii		x						x							
Hibiscus sturtii var. *campylochlamys*		x						x		x					
Hibiscus verdcourtii								x							
Indigastrum parviflorum								x							
Indigofera colutea								x		x					
Indigofera linifolia		x		x			x	x	x	x			x		
Indigofera monophylla		x					x	x		x		x	x	x	
Indigofera rugosa								x							
Indigofera sp.								x		x					
Indigofera trita subsp. *trita*									x						
Ipomoea costata								x							
Ipomoea lonchophylla									x						
Ipomoea muelleri		x	x	x	x				x	x					
Ipomoea sp.				x											

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Species	B1	C1	C2	C3	C4	C5	C6	G1	G2	S1	S2	W1	W2	W3	OPPO
Iseilema macrantherum									x						
Iseilema ?vaginiflorum									x	x					
Iseilema sp.								x	x						
Isotropis atropurpurea	x						x	x		x					
Ixiochlamys cuneifolia								x				x			x
Jasminum didymum subsp. *lineare*	x	x					x	x				x			
Kirganelia baccata			x												
Lobelia arnhemiaca		x	x	x	x										
Lotus australis								x							
Lotus cruentus		x													
Ludwigia perennis					x										
Malvaceae sp.		x						x	x	x				x	
**Malvastrum americanum*		x			x		x								
Marsilea hirsuta		x	x		x										
Melaleuca argentea			x												
Melaleuca bracteata		x	x												
Melaleuca glomerata		x	x	x	x					x					
Melaleuca linophylla		x	x	x				x							
Melhania oblongifolia	x									x					
**Melochia pyramidata*		x													
Nellica maderaspatensis	x	x	x	x			x	x	x						
Neptunia longipila (P2)									x						x
Neurachne muelleri		x					x	x				x			
Nicotiana occidentalis		x													
Notoleptopus decaisnei		x								x					
Panicum decompositum		x	x					x	x						
Panicum sp.		x	x	x				x							
Paspalidium basicladum		x		x				x		x		x			
Paspalidium clementii							x								
Paspalidium tabulatum		x	x							x					
Paspalidium sp.									x						
Pentalepis trichodesmoides subsp. *hispida* (P2)								x							x
Peplidium sp. E Evol. Fl. Fauna Arid Aust. (A.S. Weston 12768)		x													
Pluchea rubelliflora		x	x	x	x		x	x							
Pluchea sp.		x						x							
Plumbago zeylanica						x				x					
Poaceae sp.								x		x	x				
Polycarpaea corymbosa		x			x		x	x	x	x					
Polycarpaea holtzei								x		x					
Polycarpaea longiflora		x	x			x	x	x		x			x		
Polycarpaea sp.								x		x					
Polymeria ambigua		x					x	x		x			x		
Polymeria calycina		x						x		x					
Polymeria mollis		x						x							
Portulaca filifolia								x							
Portulaca oleracea		x						x	x				x		
Potamogeton tepperi					x										
Potamogeton ?tepperi				x											

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Species	B1	C1	C2	C3	C4	C5	C6	G1	G2	S1	S2	W1	W2	W3	OPPO
Pterocaulon sphacelatum							x	x				x			
Pterocaulon sphaeranthoides		x						x		x					
Ptilotus aervoides								x	x	x					
Ptilotus astrolasius		x						x		x					
Ptilotus auriculifolius		x					x	x	x	x		x			
Ptilotus calostachyus							x	x	x			x			
Ptilotus carinatus								x	x						
Ptilotus clementii								x							
Ptilotus exaltatus		x						x	x	x	x	x	x		
Ptilotus gaudichaudii		x						x		x			x		
Ptilotus gomphrenoides									x						
Ptilotus incanus		x						x				x			
Ptilotus obovatus		x						x		x					
Ptilotus polystachyus		x						x		x					
Ptilotus rotundifolius								x							
Ptilotus schwartzii		x						x	x					x	
Ptilotus sp.	x									x					
Rhagodia eremaea	x														
Rhodanthe margarethae										x					
Rhynchosia bungarensis (P4)		x					x	x	x	x					x
Rhynchosia minima	x	x			x	x		x	x	x					
Rhynchosia ?minima									x						
Rostellularia adscendens var. *clementii*		x													
Salsola australis								x		x	x				
Scaevola spinescens	x							x				x	x		
Schenkia sp.		x													
Schoenoplectus subulatus		x	x	x	x										
Schoenus falcatus			x					x							
Sclerolaena gardneri								x							
Senna artemisioides								x							
Senna artemisioides subsp. *helmsii*	x	x		x			x	x	x		x	x			
Senna artemisioides subsp. *oligophylla*	x							x	x	x		x			
Senna glutinosa subsp. *glutinosa*		x	x				x	x		x		x	x	x	
Senna glutinosa subsp. *pruinosa*		x					x	x				x		x	
Senna notabilis		x					x	x	x	x		x	x		
Senna ?notabilis									x	x					
Seringia nephrosperma								x							
Sesbania cannabina		x	x	x	x			x							
**Sesbania formosa*		x													
**Setaria verticillata*		x	x	x	x										
Sida echinocarpa		x					x	x	x						
Sida ?fibulifera									x						
Sida rohlenae subsp. *rohlenae*		x													
Sida trichopoda									x				x		
Sida sp. Articulation below (A.A. Mitchell PRP 1605)								x				x			
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		x					x	x				x		x	
Sida sp.		x						x	x	x					
Solanum cleistogamum	x	x		x				x	x	x		x			

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Species	B1	C1	C2	C3	C4	C5	C6	G1	G2	S1	S2	W1	W2	W3	OPPO
Solanum diversiflorum		x						x	x	x			x		
Solanum lasiophyllum	x							x							
Solanum phlomoides										x					
Solanum sp.		x	x					x	x	x				x	
**Sonchus oleraceus*			x		x				x						x
Sporobolus actinocladus								x							
Sporobolus australasicus		x					x		x	x	x				
Sporobolus sp.													x		
Stemodia grossa	x	x	x	x	x	x	x	x		x					
Stemodia kingii									x						
Stemodia sp.								x	x						
Streptoglossa bubakii								x	x						
Streptoglossa decurrens								x							
Streptoglossa sp.		x						x		x					
Stylidium fluminense			x	x	x										
Swainsona formosa		x			x			x		x					
Swainsona stenodonta		x						x		x					
Synaptantha tillaeacea var. *tillaeacea*										x					
Tephrosia rosea var. *clementii*		x	x	x	x		x	x		x			x		
Tephrosia supina		x					x	x		x					x
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)										x					
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)								x							
0273)									x						
PBS 0356)								x							
Tephrosia sp.		x						x							
Terminalia circumalata	x	x	x	x	x	x	x	x		x					
Themeda triandra		x		x			x	x				x	x		x
Tinospora smilacina	x	x	x					x	x	x					x
Trachymene oleracea subsp. *oleracea*		x					x	x		x					
Trianthema sp. Python Pool (G.R. Guerin & M.E. Trudgen GG 1023) (P2)								x							x
Tribulus hirsutus		x						x	x	x					
Tribulus platypterus		x						x							
Tribulus suberosus		x						x		x		x			x
Tribulus sp.								x							
Trichodesma zeylanicum var. *zeylanicum*		x	x					x	x	x			x	x	x
Trigastrotheca molluginea		x					x	x		x		x			
Triodia angusta		x													
Triodia brizoides								x							
Triodia epactia		x		x				x		x		x		x	
Triodia wiseana	x	x				x	x	x	x	x	x	x	x	x	
Triodia ?wiseana	x	x				x	x	x	x	x		x			
Triodia sp.		x						x							
Triumfetta appendiculata		x	x					x		x		x			

APPENDIX I: SUMMARY OF VASCULAR PLANT SPECIES RECORDED BY VEGETATION COMMUNITY, YINDJIBARNDI RENEWABLE ENERGY PROJECT

Note: * denotes introduced species; P1 - P4 denotes priority taxon (DBCA 2024d, WAH 1998-);
Oppo - denotes opportunistically recorded taxon

Species	B1	C1	C2	C3	C4	C5	C6	G1	G2	S1	S2	W1	W2	W3	OPPO
Triumfetta clementii		x		x				x		x					
Triumfetta maconochieana		x					x	x				x			
Triumfetta propinqua		x								x					
Triumfetta sp.								x		x		x			
Typha domingensis		x	x	x	x										
* *Vachellia farnesiana*		x		x			x								
Vallisneria annua					x										
Vigna lanceolata var. *lanceolata*		x													
Vigna sp.		x							x						
Waltheria indica							x	x							x

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: B1

Vegetation Community Description:

Terminalia circumalata, Brachychiton acuminatus low sparse trees over *Flueggea virosa* subsp. *melanthesoides, Jasminum didymum* subsp. *lineare* mid isolated shrubs on rocky basalt hills.

Soil and Landform:	Orange sandy clay beneath basalt and sandstone rocks in complex boulder fields	**Surface Rocks:**	Present
Outcropping:	Basalt	**Vegetation Condition:**	Excellent
Community Area:	169.85 ha	**Proportion of Survey Area:**	0.42%
Total No. Quadrats:	1	**Average Quadrat Spp. Richness:**	12
Total No. Relevés:	2		

Representative Photograph

Relevé R037

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: C1

Vegetation Community Description:

Eucalyptus victrix low open woodland over *Melaleuca linophylla, Acacia bivenosa, Acacia coriacea* subsp. *pendens* mid sparse shrubland over *Cyperus vaginatus, Stemodia grossa, Tephrosia rosea* var. *clementii* low sparse shrubland in ephemeral drainage channels.

Other statistically associated species: *Triodia wiseana*

Soil and Landform:	Red-brown sandy clay with granite, ironstone, and sandstone on major and minor channels	**Surface Rocks:**	Present
Outcropping:	Granite, ironstone, and sandstone	**Vegetation Condition:**	Excellent
Community Area:	1,564.18 ha	**Proportion of Survey Area:**	3.86%
Total No. Quadrats:	20	**Average Quadrat Spp. Richness:**	25
Total No. Relevés:	19		

Representative Photograph

Quadrat Q122

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: C2

Vegetation Community Description:

Melaleuca argentea, Eucalyptus ?*camaldulensis, Eucalyptus victrix* mid woodland over *Acacia ampliceps, Acacia coriacea* subsp. *pendens,* mid open shrubland over *Cyperus vaginatus, Typha domingensis, Schoenoplectus subulatus* tall open sedgeland surrounding pools with high water permanence.

Soil and Landform:	Brown sandy clay	**Surface Rocks:**	Present
Outcropping:	Ironstone	**Vegetation Condition:**	Excellent
Community Area:	35.14 ha	**Proportion of Survey Area:**	0.09%
Total No. Quadrats:	0	**Average Quadrat Spp. Richness:**	N/A
Total No. Relevés:	5		

Representative Photograph

Relevé R232

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: C3

Vegetation Community Description:

Eucalyptus victrix, Eucalyptus camaldulensis low woodland over *Acacia coriacea* subsp. *pendens, Melaleuca glomerata, Acacia* spp. (*A. bivenosa, A. pyrifolia* var. *pyrifolia, A. tumida*) mid sparse shrubland over *Cyperus vaginatus, Stemodia grossa, Eriachne benthamii* low sparse shrubland in drainage channels.

Soil and Landform:	Brown loam on major channel	**Surface Rocks:**	Present
Outcropping:	Ironstone	**Vegetation Condition:**	Excellent
Community Area:	133.67 ha	**Proportion of Survey Area:**	0.33%
Total No. Quadrats:	0	**Average Quadrat Spp. Richness:**	N/A
Total No. Relevés:	4		

Representative Photograph

Relevé R115

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: C4

Vegetation Community Description:

Eucalytpis victrix, Eucalytpus camaldulensis low open woodland over *Acacia coriacea* subsp. *pendens, Flueggea virosa* subsp. *melanthesoides*, *Terminalia circumulata* mid sparse shrubland over *Cyperus vaginatus*, *Typha domingensis, Schoenoplectus subulatus* sedgeland around pools with high water permanence.

Soil and Landform:	Major channel	**Surface Rocks:**	Present
Outcropping:	Ironstone	**Vegetation Condition:**	Very good
Community Area:	10.85 ha	**Proportion of Survey Area:**	0.03%
Total No. Quadrats:	0	**Average Quadrat Spp. Richness:**	N/A
Total No. Relevés:	3		

Representative Photograph

Relevé R113

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: C5

Vegetation Community Description:

Terminalia circumulata low sparse woodland over *Acacia coriacea* subsp. *pendens*, *Flueggea virosa* subsp. *melanthesoides*, *Cynanchum viminale* subsp. *australe* low sparse shrubland over *Cyperus vaginatus, Triodia wiseana, Cymbopogon ambiguus* low sparse grassland in narrow rocky sandstone gorges.

Soil and Landform:	Dark red loam in sandstone gorge	**Surface Rocks:**	Present
Outcropping:	Sandstone	**Vegetation Condition:**	Excellent
Community Area:	31.71 ha	**Proportion of Survey Area:**	0.08%
Total No. Quadrats:	1	**Average Quadrat Spp. Richness:**	13
Total No. Relevés:	1		

Representative Photograph

Relevé R060

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: C6

Vegetation Community Description:

Eucalyptus victrix, Corymbia hamersleyana low sparse woodland over *Acacia tumida* var. *pilbarensis, Acacia pyrifolia, Acacia bivenosa* low open shrubland over *Triodia wiseana*, *Cymbopogon ambiguus, Enneapogon lindleyanus* low sparse hummock grassland in minor drainage channels.

Soil and Landform:	Red-brown sandy gravel in minor creeks	**Surface Rocks:**	Present
Outcropping:	Granite, ironstone	**Vegetation Condition:**	Excellent
Community Area:	464.10 ha	**Proportion of Survey Area:**	1.14%
Total No. Quadrats:	2	**Average Quadrat Spp. Richness:**	28
Total No. Relevés:	5		

Representative Photograph

Relevé R132

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: G1

Vegetation Community Description:

Acacia inaequilatera, Corymbia hamersleyana low isolated trees over *Indigofera monophylla, Acacia pyrifolia, Acacia bivenosa* low sparse shrubland over *Triodia wiseana, Triodia epactia* low open hummock grassland on rocky sandstone hilltops and plains.

Soil and Landform:	Orange sandy loam on sandstone hilltops and rocky plains	**Surface Rocks:**	Present
Outcropping:	Absent	**Vegetation Condition:**	Excellent
Community Area:	33,156.16 ha	**Proportion of Survey Area:**	81.79%
Total No. Quadrats:	103	**Average Quadrat Spp. Richness:**	15
Total No. Relevés:	23		

Representative Photograph

Quadrat Q162

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: G2

Vegetation Community Description:
Aristida latifolia, Triodia wiseana low sparse tussock grassland over *Rhynchosia minima, Streptoglossa bubakii* low isolated shrubs with diverse annual herbs and grasses on friable cracking clay on hilltops and flats.

Soil and Landform:	friable cracking clay on hilltop flats.	**Surface Rocks:**	Present
Outcropping:	Absent	**Vegetation Condition:**	Very Good
Community Area:	1.145.08 ha	**Proportion of Survey Area:**	2.82%
Total No. Quadrats:	17	**Average Quadrat Spp. Richness:**	16
Total No. Relevés:	0		

Representative Photograph

Quadrat Q220

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: S1

Vegetation Community Description:

Corymbia hamersleyana low isolated trees over *Acacia ancistrocarpa, Acacia pyrifolia* var*. pyrifolia, Grevillea wickhamii* mid sparse shrubland over *Triodia epactia, Triodia wiseana* low sparse hummock grassland on stony plains and granite tor fields.

Soil and Landform:	Orange sandy loam gravel on flats and granite tor fields	**Surface Rocks:**	Present
Outcropping:	Granite, sandstone	**Vegetation Condition:**	Excellent
Community Area:	2,782.44 ha	**Proportion of Survey Area:**	6.86%
Total No. Quadrats:	16	**Average Quadrat Spp. Richness:**	20
Total No. Relevés:	1		

Representative Photograph

Quadrat Q055

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: S2

Vegetation Community Description:

Acacia xiphophylla tall open shrubland over *Senna artemisioides* subsp. *helmsii*, *Acacia coriacea* subsp. *pendens* low isolated shrubs over *Triodia wiseana* low isolated hummock grasses on orange-brown clay flats.

Soil and Landform:	Orange brown clay on flat minor channel	**Surface Rocks:**	Present
Outcropping:	Absent	**Vegetation Condition:**	Poor
Community Area:	20.52 ha	**Proportion of Survey Area:**	0.05%
Total No. Quadrats:	1	**Average Quadrat Spp. Richness:**	12
Total No. Relevés:	0		

Representative Photograph

Quadrat Q027

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: W1

Vegetation Community Description:

Eucalyptus leucophloia subsp. *leucophloia* low open woodland over *Acacia bivenosa, Acacia* spp. (*A. ancistrocarpa, A. inaequilatera, A. maitlandii, A. pyrifolia*), *Senna glutinosa* subsp. *glutinosa* low isolated shrubs over *Triodia wiseana* low sparse hummock grassland on sandstone hilltops.

Soil and Landform:	Red brown sandy clay on sandstone hilltops and slopes	**Surface Rocks:**	Present
Outcropping:	Sandstone	**Vegetation Condition:**	Excellent
Community Area:	849.15 ha	**Proportion of Survey Area:**	2.09%
Total No. Quadrats:	13	**Average Quadrat Spp. Richness:**	15
Total No. Relevés:	1		

Representative Photograph

Quadrat Q174

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: W2

Vegetation Community Description:

Corymbia hamersleyana low open woodland over *Acacia bivenosa, Acacia pyrifolia, Acacia arida* low isolated shrubs over *Triodia wiseana, Themeda triandra* low sparse hummock grassland on rocky sandstone alluvium.

Soil and Landform:	Brown red alluvium on rocky flats	**Surface Rocks:**	Present
Outcropping:	Absent	**Vegetation Condition:**	Excellent
Community Area:	6.08 ha	**Proportion of Survey Area:**	0.01%
Total No. Quadrats:	1	**Average Quadrat Spp. Richness:**	9
Total No. Relevés:	1		

Representative Photograph

Quadrat Q206

APPENDIX J: SUMMARY OF VEGETATION COMMUNITIES RECORDED WITHIN THE SURVEY AREA, 2024

Vegetation Community Code: W3

Vegetation Community Description:

Eucalyptus leucophloia subsp. *leucophloia, Corymbia hamersleyana* low open woodland over *Acacia ancistrocarpa, Hakea* spp. (*H. chordophylla, H. lorea*), *Acacia pyrifolia* low sparse shrubland over *Triodia wiseana, Triodia epactia* low open hummock grassland on orange rocky sandstone slopes.

Soil and Landform:	Orange sandy clay on lower and mid slopes	**Surface Rocks:**	Present
Outcropping:	Sandstone	**Vegetation Condition:**	Excellent
Community Area:	167.03 ha	**Proportion of Survey Area:**	0.41%
Total No. Quadrats:	2	**Average Quadrat Spp. Richness:**	14
Total No. Relevés:	0		

Representative Photograph

Quadrat Q195