Gudai Darri Flora and Vegetation Survey

Native Vegetation Clearing Permit Amendment – Supporting Report

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PREPARED FOR:

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PREPARED BY:

Stantec Australia Pty Ltd

Stantec

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Executive Summary

Rio Tinto Iron Ore operates the Gudai Darri iron ore mine, located approximately 120 kilometres northwest of Newman in the Pilbara bioregion of Western Australia. Rio Tinto commissioned Stantec Australia Pty Ltd to undertake a flora, and vegetation desktop assessment and field survey to support a Native Vegetation Clearing Permit, required under Section 51A of the *Environmental Protection Act 1986*.The Survey Area comprises 12,122.91 hectares.

Rio Tinto Iron Ore submitted a permit application to the Department of Energy, Mines, Industry Regulation and Safety in 2021 for the purpose of mineral exploration, hydrogeological drilling, geotechnical investigations, construction camp and associated activities under Part V of the *Environmental Protection Act*. The approved Native Vegetation Clearing Permit (CPS 4615) is nearing its clearing limits, and Rio Tinto intends to submit an amendment to increase the area of mineral exploration and geotechnical drilling to improve resource classification.

The specific objectives included the completion of a desktop assessment (including database searches, a literature review and a likelihood of occurrence assessment), reviewing and consolidating previous vegetation type mapping for the Survey Area, conducting a single-phase survey within the Survey Area, provide a consolidated flora and vegetation report and associated data package.

Access limitations were identified prior to the survey, including restrictions on traversing exclusion areas located within and adjacent to the Survey Area. These exclusion areas comprised 2,201 hectares, representing 18.2% of the Survey Area. Despite these restrictions, a substantial volume of data from previous surveys was available to inform vegetation type and condition mapping, and a consolidated species list presenting all taxa that have been recorded within the Survey Area.

The flora and vegetation survey was conducted over 12 days from 10 to 21 March 2025, aligning with the recommended timeframe for primary surveys in the Eremaean Botanical Province. Within the Survey Area, Stantec established and sampled 118 quadrats and 28 relevés, which were combined with data from previous surveys (61 quadrats 79 relevés) to compile a representative species list and to characterise the vegetation types. The vegetation mapping from a selection of previous surveys was ground-truthed in the field, and adjustments to vegetation type boundaries and descriptions were made following the Stantec survey as necessary.

A consolidated total of 381 fully identified vascular flora (including species, subspecies, varieties, forms, hybrids, native and introduced species) have been recorded within the Survey Area, of which 256 were recorded during this survey. The 381 vascular flora comprises 49 families and 146 genera, and the most represented families were Fabaceae (peas), Poaceae (grasses) and Malvaceae (mallows), and the most diverse genus was *Acacia* (wattles).

One significant flora taxon listed under the *Biodiversity Conservation Act 2016* has been recorded within the Survey Area; the Threatened species *Synostemon hamersleyensis* (EN). The Department of Biodiversity, Conservation and Attractions maintains a Priority Flora List, which includes taxa that are not currently listed under the *Biodiversity Conservation Act 2016* but are considered to be of conservation interest due to being data deficient (Priorities 1-3) or requiring monitoring (Priority 4, e.g. near threatened, rare but not threatened, conservation dependent etc.). Two Priority 3 flora (*Eremophila naaykensii* and *Rostellularia adscendens* var. *latifolia*) and three Priority 4 flora (*Acacia bromilowiana, Eremophila magnifica* subsp. *magnifica* and *Rhynchosia bungarensis* have been recorded in the Survey Area.

The Environmental Protection Authority Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment consider flora and vegetation to be significant for a range of reasons, such as new or potentially new species, restricted taxa, naturally occurring hybrids, endemic species or species associated with a restricted habitat type. In addition to the Threatened and Priority Flora, 11 taxa were considered to represent flora of other significance, as they were identified as likely new taxon, range extensions, naturally occurring hybrids, or unconfirmed Priority flora.

Eight specimens collected during the Stantec survey were identified as *Corchorus* aff. *tectus,* following taxonomist assessment indicating affinity to *Corchorus tectus*, however diagnostic characters differed from typical *Corchorus tectus. Corchorus* aff. *tectus* was recorded at 10 locations during the Stantec survey, however it is likely to be more widespread than the records suggest, occurring in association with loamy or stony plains across the northern portions of the Survey Area. This taxon is likely to represent an undescribed taxon, and a phrase-name will be applied following the completion of a genetic study.

Records of two taxa collected during the survey represent range extensions. *Templetonia hookeri* was opportunistically recorded during the Stantec survey, occurring on rocky hillslopes habitats. The records of *Templetonia hookeri* within the

Survey Area are the first records within the Hamersley subregion and represent the most southern record of this species. The nearest vouchered record of *Templetonia hookeri* is approximately 109 km to the northeast of the record collected opportunistically during the Stantec survey. *Acacia adoxa* var. *adoxa* x *spondylophylla* was recorded at four locations within the Survey Area during the Stantec survey. This hybrid is represented by only two vouchered records on Florabase, located approximately 80 km southeast and 117 km northeast of the Survey Area. Both parent species were widespread within the Survey Area and are common throughout the Pilbara bioregion, and across northern Australia.

A total of 14 introduced flora (weeds) have been recorded within the Survey Area, inclusive of records from previous surveys, none of which represent a Weed of National Significance or a Declared Pest. The diversity of introduced flora within the Survey Area is considered typical for the Pilbara bioregion, with the majority of weed records occurring in drainage lines, or in association with disturbed vegetation or infrastructure.

A total of 33 vegetation types were described and mapped within the Survey Area, none of which represent a Threatened Ecological Community. Additionally, approximately 1,010 hectares (8.3%) of the Survey Area has been cleared of vegetation, predominantly for mining operations (including the accommodation village, roads, drill pads and access tracks).

The Koodaideri Spring is located within an unnamed creek within the Survey Area, where groundwater seeps from a rock wall extending across a narrow gorge and discharges into a narrow valley with a series of small channels and pools downstream of the spring. These ecological values of the Koodaideri Spring are considered relatively uncommon across the Pilbara bioregion. The vegetation type associated with the Koodaideri Spring (EcrFvvCvTdCcTt) comprises of a dense canopy of the facultative phreatophyte, *Eucalyptus camaldulensis* subsp. *refulgens,* along with and *Ficus virens* subsp. *virens*, which together provide prolonged shading, with *Typha domingensis* present in the understorey. The collective ecological and floristic attributes indicate that EcrFvvCvTdCcTt at the Koodaideri Spring is analogous to the Priority 2 'Riparian flora and plant communities of springs and river pools with high water permanence of the Pilbara Region' Priority Ecological Community. The Koodaideri Spring vegetation type (EcrFvvCvTdCcTt) was mapped over 4.3 hectares (0.04% of the Survey Area) and was assessed to be in Good condition.

Vegetation condition in the Survey Area ranged from Excellent to Completely Degraded, with the majority of the Survey Area (70.7%) mapped as Excellent condition. Weed proliferation was a common form of impact to the vegetation condition, and weeds were a feature of some representations of riparian vegetation within the Survey Area.

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Acronyms and Abbreviations

Acronym/Abbreviation	Full Name
ALA	Atlas of Living Australia
°C	Degrees Celsius
BAM Act	*Biosecurity and Agriculture Management Act 2007*
BAP	Bioregional Assessment Program
BC Act	*Biodiversity Conservation Act 2016*
BOM	Bureau of Meteorology
cm	Centimetres
CPS	Clearing Permit System
CR	Critically Endangered
DBCA	Department of Biodiversity, Conservation and Attractions
DCCEEW	Department of Climate Change, Energy, the Environment and Water
DIW	Directory of Important Wetlands
DWER	Department of Water and Environmental Regulation
EAR	Ecosystem at Risk
EN	Endangered
EOO	Extent of occupancy
EP ACT	*Environmental Protection Act 1986*
EPA	Environmental Protection Authority
EPBC Act	*Environmental Protection and Biodiversity Conservation Act 1999*
ESA	Environmentally Sensitive Area
GDA	Geocentric Datum of Australia
GDEs	Groundwater-dependent ecosystems
GDV	Groundwater-dependent vegetation
GPS	Global positioning system
ha	Hectares
IBRA	Interim Biogeographic Regionalisation for Australia
IBSA	Index of Biodiversity Surveys for Assessments
IUCN	International Union for Conservation of Nature
km	Kilometres
mm	Millimetres
MNES	Matters of National Environmental Significance
NVCP	Native Vegetation Clearing Permit
NVIS	National Vegetation Information System
PECs	Priority ecological communities
PFC	Percent foliar cover
PD	Presumed Totally Destroyed
PIL2	Fortescue subregion
PIL3	Hamersley subregion

Acronym/Abbreviation	Full Name
PLNB	Pilbara Leaf-nosed Bat
P1	Priority 1
P2	Priority 2
P3	Priority 3
P4	Priority 4
Rio Tinto	Rio Tinto Iron Ore (RTIO)
sp.	Species (singular)
spp.	Species (plural)
subsp.	Subspecies
Stantec	Stantec Australia Pty. Ltd.
T	Threatened flora
TECs	Threatened ecological communities
TFL	Threatened Flora Licence
var.	Variety
VU	Vulnerable
WA	Western Australia
WAH	Western Australian Herbarium
Weeds	Introduced flora
WoNS	Weeds of National Significance
*	Denotes introduced flora

1. Introduction

1.1 Project Background

Rio Tinto Iron Ore (Rio Tinto) operates the Gudai Darri iron ore mine, located approximately 120 km northwest of Newman in the Pilbara bioregion of Western Australia (WA) (**Figure 1-1**). Rio Tinto commissioned Stantec Australia Pty Ltd (Stantec) to undertake a flora and vegetation desktop assessment and field survey ('the Stantec survey') to support a Native Vegetation Clearing Permit (NVCP), required under Section 51A of the *Environmental Protection Act 1986* (EP Act). The Survey Area comprises 12,122.91 ha, which includes previously cleared vegetation (**Figure 1-2**).

Rio Tinto submitted a permit application to the Department of Energy, Mines, Industry Regulation and Safety[1] in 2021 for the purpose of mineral exploration, hydrogeological drilling, geotechnical investigations, construction camp and associated activities under Part V of the EP Act. The approved NVCP (CPS 4615) is nearing its clearing limits, and Rio Tinto intends to submit an amendment to increase the areas of mineral exploration and geotechnical drilling to improve resource classification.

1.2 Objectives and Scope

The overarching objective was to identify key environmental values associated with the Survey Area to support the proposed amendment to CPS 4615. The specific objectives included the following:

- complete a desktop assessment (including database searches, a literature review and a likelihood of occurrence assessment);
- review and consolidate previous vegetation type mapping for the Survey Area;
- conduct a single-phase survey within the Survey Area to:
    - ground-truth and consolidate previously mapped vegetation types;
    - install and sample quadrats and relevés to ensure adequate replication for all vegetation types;
    - undertake targeted flora surveys.
- provide a consolidated flora and vegetation report for the Survey Area; and
- provide one consolidated data package for the Survey Area.

1.3 Legislative Context

This survey was conducted in accordance with the following regulations and Rio Tinto requirements:

- *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act);
- *Biodiversity Conservation Act 2016* (BC Act);
- *Environmental Protection Act 1986*;
- Instructions for the preparation of data packages for the Index of Biodiversity Surveys for Assessment (IBSA) (EPA 2021a);
- Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment (EPA 2016a);
- Statement of environmental principles, factors, objectives and aims of EIA (EPA 2021b);
- Environmental Factor Guideline: Flora and Vegetation (EPA 2016b);

[1] Recently restructured and now the Department of Mines, Petroleum and Exploration manage NVCP applications for mineral exploration.

- Environmental Factor Guideline: Landforms (EPA 2018);
- Matters of National Environmental Significance – significant impact guidelines – *Environment Protection and Biodiversity Conservation Act 1999* (DoE 2013); and
- Rio Tinto Iron Ore Data Standards (RTIO 2025b).

A summary of the Survey Area size, key details, EPA Technical Guidance and key limitations are provided in **Table 1-1**. A comprehensive discussion of limitations and constraints is provided in **Section 5**.

Table 1-1: Summary of the Stantec survey.

Component	Detail
Survey Area size	12,122.91 ha
Type of survey	Reconnaissance level[2] flora and vegetation survey, including targeted significant flora.
Survey timing	March 2025.
Key EPA standards and guidance	• EPA Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment (EPA 2016a); • EPA Factor Guideline Environmental Factor Guideline: Flora and Vegetation (EPA 2016b); and • Environmental Factor Guideline: Landforms (EPA 2018).
Key survey limitations	Access was not permitted within heritage exclusion areas mapped within the Survey Area. Prior to the survey, Rio Tinto provided geospatial data delineating these exclusion areas which comprised 2,201 ha (18.2%) of the total Survey Area. No quadrats, significant flora searches or mapping traverses were conducted within the heritage exclusion areas during the survey. Therefore, vegetation types and vegetation condition were informed by data and reports from previous surveys (**Section 3.1.2**). Mapping was also extrapolated from adjacent areas, and by the interpretation of aerial imagery and relevant geospatial layers.

[2] While quadrats were the predominant form of floristic sampling, the survey did not meet other criteria associated with a Detailed survey.

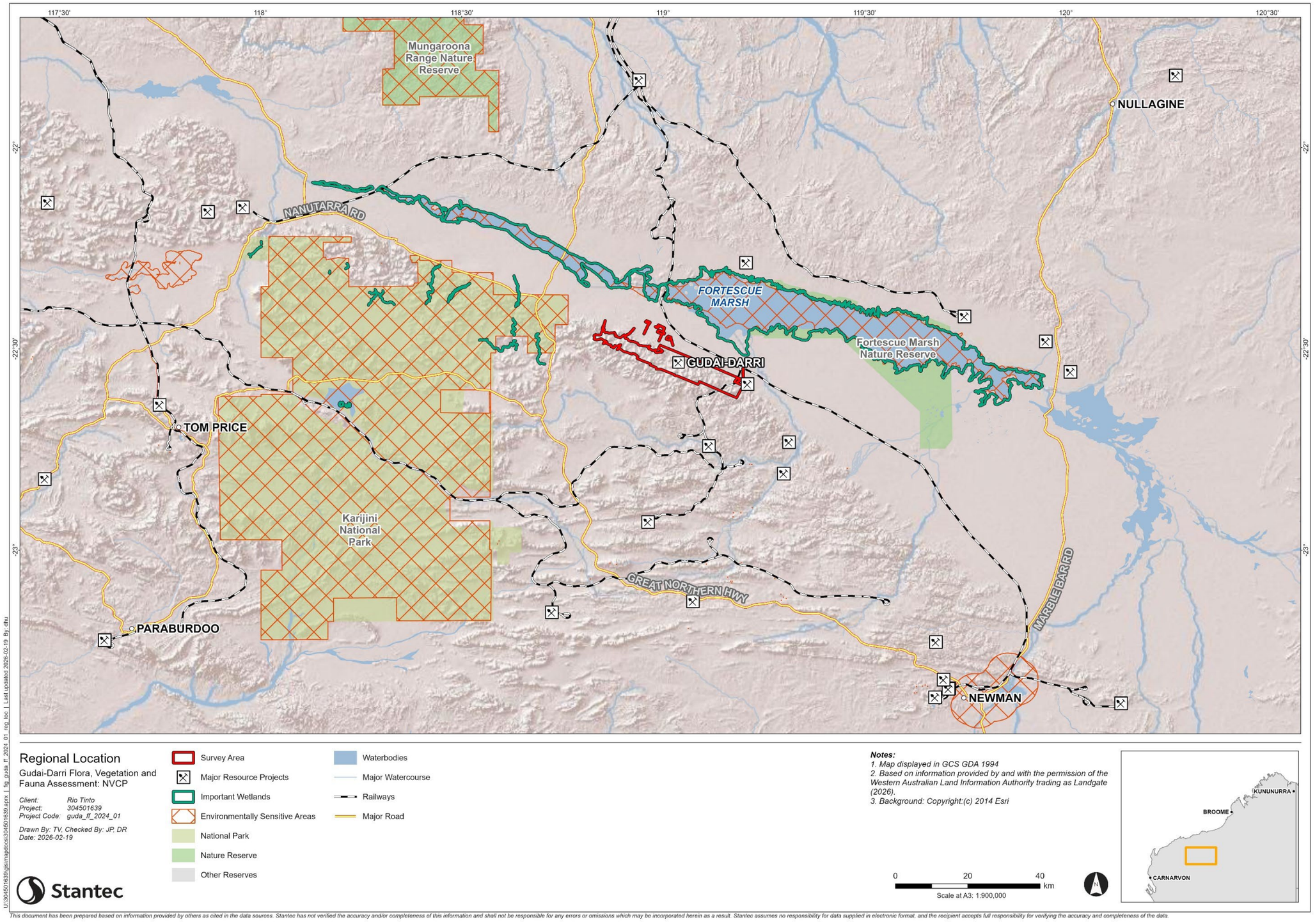

Figure 1-1: Regional location of the Survey Area.

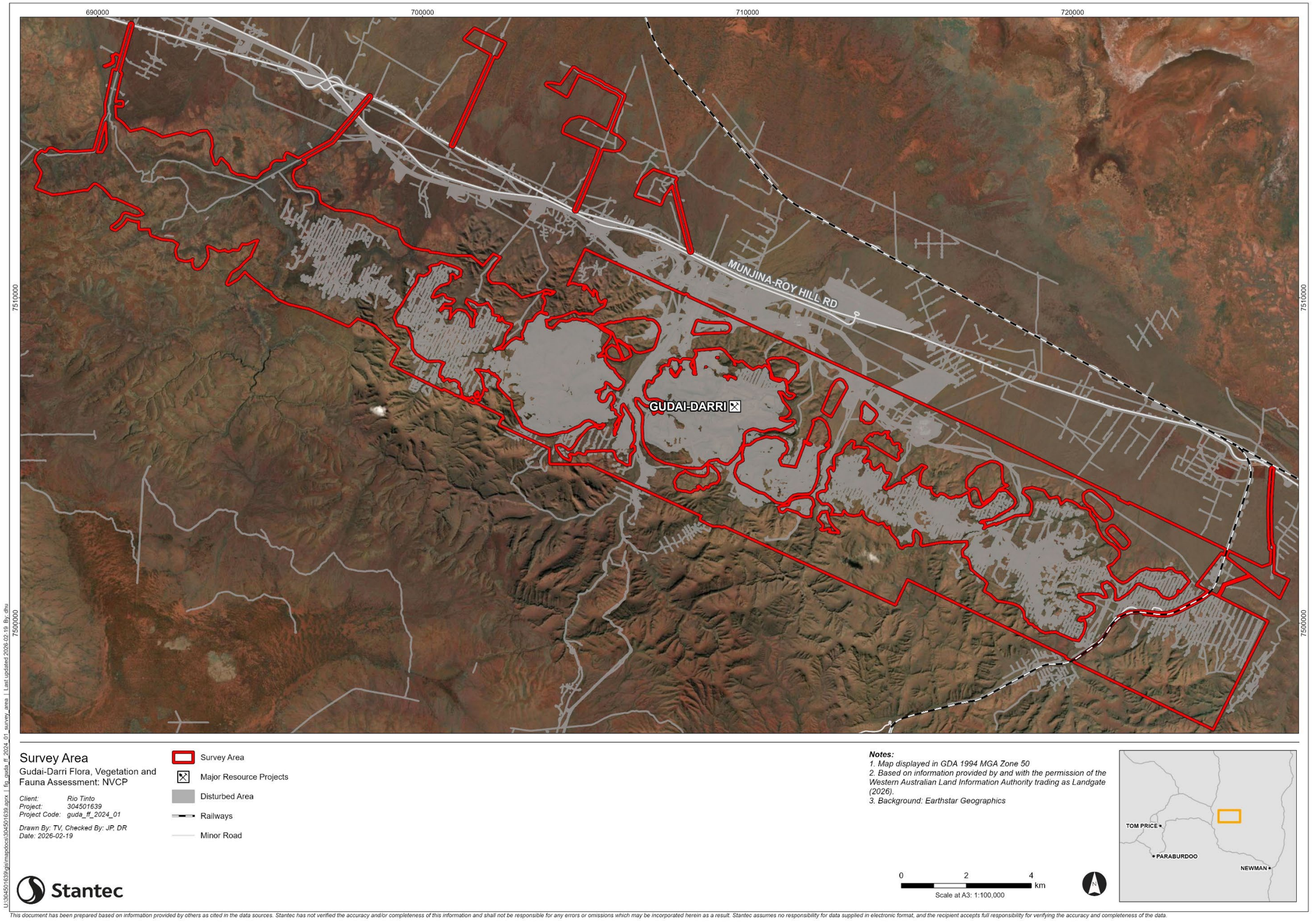

Figure 1-2: The Survey Area.

2. Existing Environment

2.1 Biogeographic Location

The Interim Biogeographic Regionalisation for Australia (IBRA (version 7.0)) is a bioregional framework that divides Australia into 89 biogeographic regions and 419 subregions on the basis of climate, geology, landforms, vegetation, and species information (Thackway and Cresswell 1995). It was developed through collaboration between State and Territory conservation agencies with coordination by the then Commonwealth Department of Environment, Sport & Territories (now Department of Climate Change, Energy, the Environment and Water; DCCEEW).

The Survey Area occurs within two of the four subregions of the Pilbara bioregion and is situated along the boundary between them (**Figure 2-1**). The majority of the Survey Area occurs within the Hamersley subregion (PIL03), while the northern portions of the Survey Area occur within the Fortescue subregion (PIL02) (**Table 2-1, Figure 2-1**). The subregions are described as:

- PIL03: Mountainous area of Proterozoic ranges and plateaux with low *Acacia aneura* (Mulga) woodland over bunch grasses on fine textured soils and *Eucalyptus leucophloia* subsp. *leucophloia* (Snappy Gum) over *Triodia brizoides* on the skeletal sandy soils of the ranges (Kendrick 2001a).
- PIL02: Alluvial plains and river frontage. Extensive salt marsh, mulga-bunch grass and short grass communities on alluvial plains in the east. Deeply incised gorge systems in the western (lover) part of the drainage. River Gum woodlands fringe the drainage lines. Northern limit of *Acacia aneura* (Mulga) (Kendrick 2001b).

Table 2-1: IBRA subregions associated with the Survey Area.

Subregion	Extent of Subregion (ha)	Extent within Survey Area (ha)	Percentage of the Survey Area
Hamersley (PIL03)	6,215,092	10,387.62	85.69%
Fortescue (PIL02)	2,041,914	1,735.29	14.31%

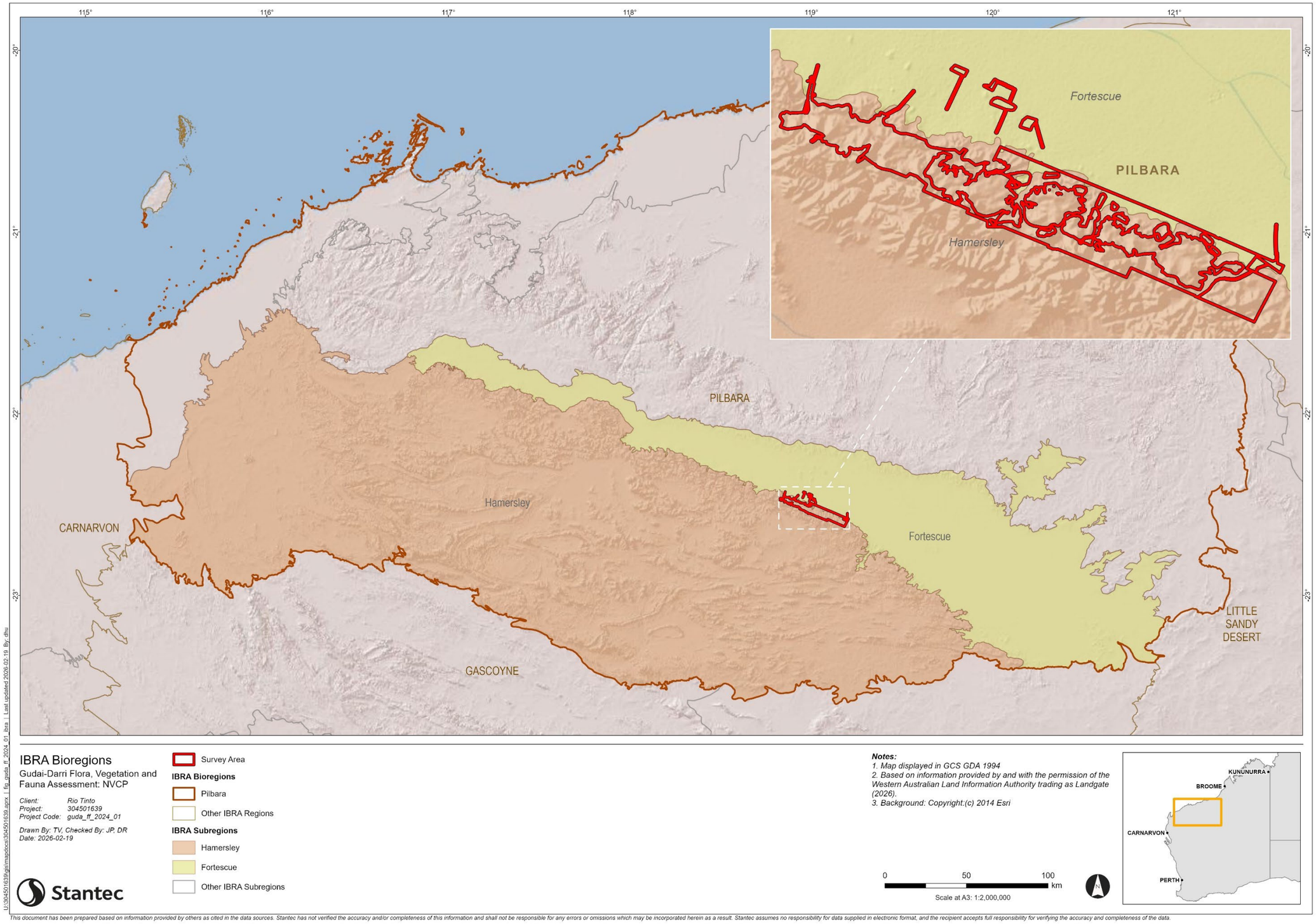

Figure 2-1: Bioregions associated with the Survey Area.

2.2 Pre-European Vegetation

Vegetation mapping of WA was completed at a broad scale (1:1,000,000 and 1:250,000) by Beard (1975b), defining broad vegetation associations including those specific to the Pilbara (Beard 1975a). These vegetation associations were re-assessed by Shepherd *et al.* (2002), to account for clearing in the intensive land use zone of WA, and to divide some of the larger vegetation units. In addition, Shepherd *et al.* (2002) developed a series of systems to assist in the removal of mosaics, although some mosaics still occur. At a scale of 1:1,000,000 to 1:250,000, Beard's (1975a) mapping only provides a broad overview of expected vegetation types within the Survey Area.

Two pre-European vegetation associations occur within the Survey Area (**Table 2-2**, **Figure 2-2**):

- Hammersley 82: Hummock grasslands, low tree steppe; snappy gum over *Triodia wiseana*; and
- Fortescue Valley 111: Hummock grasslands, shrub steppe; *Eucalyptus gamophylla* over hard spinifex.

Table 2-2: Pre-European vegetation associations and extent within the Survey Area.

Vegetation Association	Code	Extent within the Survey Area (ha)	Percentage of Survey Area
Hammersley 82	82	10,582.01	87.29%
Fortescue Valley 111	111	1,540.90	12.71%

The Survey Area occurs in the Fortescue Botanical District of the Eremaean Botanical Province (Beard 1990). Beard (1990) describes the Fortescue Botanical District as 'tree and shrub steppe communities with *Eucalyptus* trees, *Acacia* shrubs, *Triodia pungens* and *Triodia wiseana* grasslands. Mulga occurs in the valleys, while short-grass plains occur on alluvial soils'.

The significance of clearing a particular vegetation association can be determined by comparing current and pre-European extents. **Table 2-3** summarises the current (as of 2019) and pre-European extent of these two vegetation associations across four scales: state, bioregion, subregion and Local Government Area (LGA). The remaining extent of all pre-European vegetation associations has been calculated to be above 99% across all four scales of assessment (Government of Western Australia 2019) (**Table 2-3**).

Table 2-3: Extent of pre-European vegetation associations for the Survey Area, and the remaining extent across four scales (Government of Western Australia 2019).

System	Scale	Pre-European Extent (ha)	Current Extent (ha)	Percentage Remaining	Current Extent (ha) within the IUCN Class I-IV Reserves	Percentage of Extent Protected within IUCN Class I-IV Reserves
Hammersley 82	State-wide	2,565.901.28	2,553,206.19	99.51%	262,983.27	10.25%
	Bioregion (Pilbara)	2,563,583.23	2,550,888.14	99.50%	262,983.27	10.26%
	Subregion (PIL02)	24,192.21	24,191.04	99.99%	739.34	3.06%
	Subregion (PIL03)	2,177,573.90	2,165,224.21	99.43%	262,243.93	12.04%
	Shire of East Pilbara	927,709.76	919,072.17	99.07%	4,637.34	0.50%
Fortescue Valley 111	State-wide	762,963.55	762,362.22	99.92%	41,660.01	5.46%
	Bioregion (Pilbara)	550,286.99	550,232.45	99.99%	7,082.46	1.29%
	Subregion (PIL02)	454,784.97	454,730.43	99.99%	6,880.56	1.51%
	Subregion (PIL03)	855.56	855.56	100.00%	201.90	23.60%
	Shire of East Pilbara	498,619.98	498,619.98	100%	24,127.20	4.84%

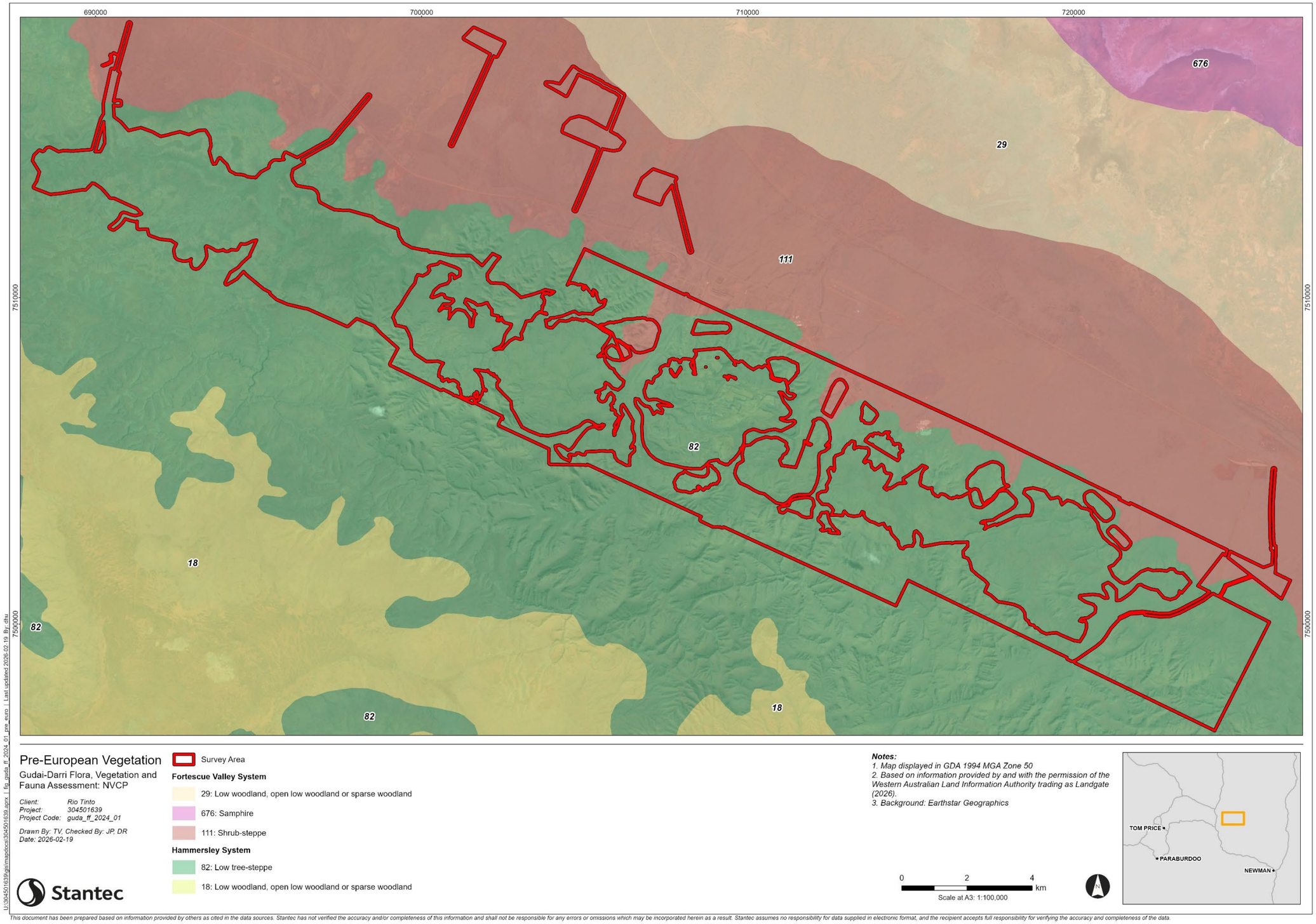

Figure 2-2: Pre-European vegetation associations within the Survey Area.

2.3 Land Systems

Land systems are defined as an area or group of areas throughout which there is a recurring pattern of topography, soils and vegetation (Tille 2006). An understanding of land systems provides an indication of the diversity and distribution of vegetation and habitat types within the Survey Area.

A regional land survey was undertaken in the Pilbara region between 1995 and 1999, by the, then, Department of Agriculture (now the Department of Primary Industries and Regional Development) and the then Department of Land Administration (now Landgate). The objective of the survey was to develop a comprehensive description of biophysical resources and assess the vegetation composition and soil condition within the region. This information was used by van Vreeswyk *et al.* (2004) to classify and map the land systems of the Pilbara region according to landform, soil, vegetation, geology and geomorphology.

A total of 102 land systems have been mapped within the Pilbara bioregion, of which four occur within the Survey Area, described as:

- Newman: Rugged jaspilite plateaux, ridges and mountains supporting hard spinifex grasslands;
- Boolgeeda: Stony lower slopes and plains below hill systems supporting hard and soft spinifex grasslands or mulga shrublands;
- Jamindie: Stony hardpan plains supporting groved mulga shrublands, occasionally with spinifex understorey; and
- Divide: Gently undulating sandplains with minor dunes, supporting hard spinifex hummock grasslands with numerous shrubs.

The most dominant land system within the Survey Area is the Newman system, which comprises 9,433.83 ha (77.82%) (**Table 2-4**, **Figure 2-3**). For each of the four land systems, greater than 99% of the mapped regional occurrences are located outside the Survey Area.

Table 2-4: Land systems and their extent within the Survey Area.

Land System	Extent within Pilbara bioregion (ha)		Total within the Survey Area (ha)		Percentage of the Pilbara representations of the Land Systems in the Survey Area
	ha	%	ha	%	
Newman	1,994,339.40	11.19	9,433.83	77.82	0.47
Boolgeeda	961,847.05	5.40	2,556.89	21.09	0.27
Jamindie	192,160.12	1.08	121.03	1.00	0.06
Divide	436,649.19	2.45	11.16	0.09	<0.01

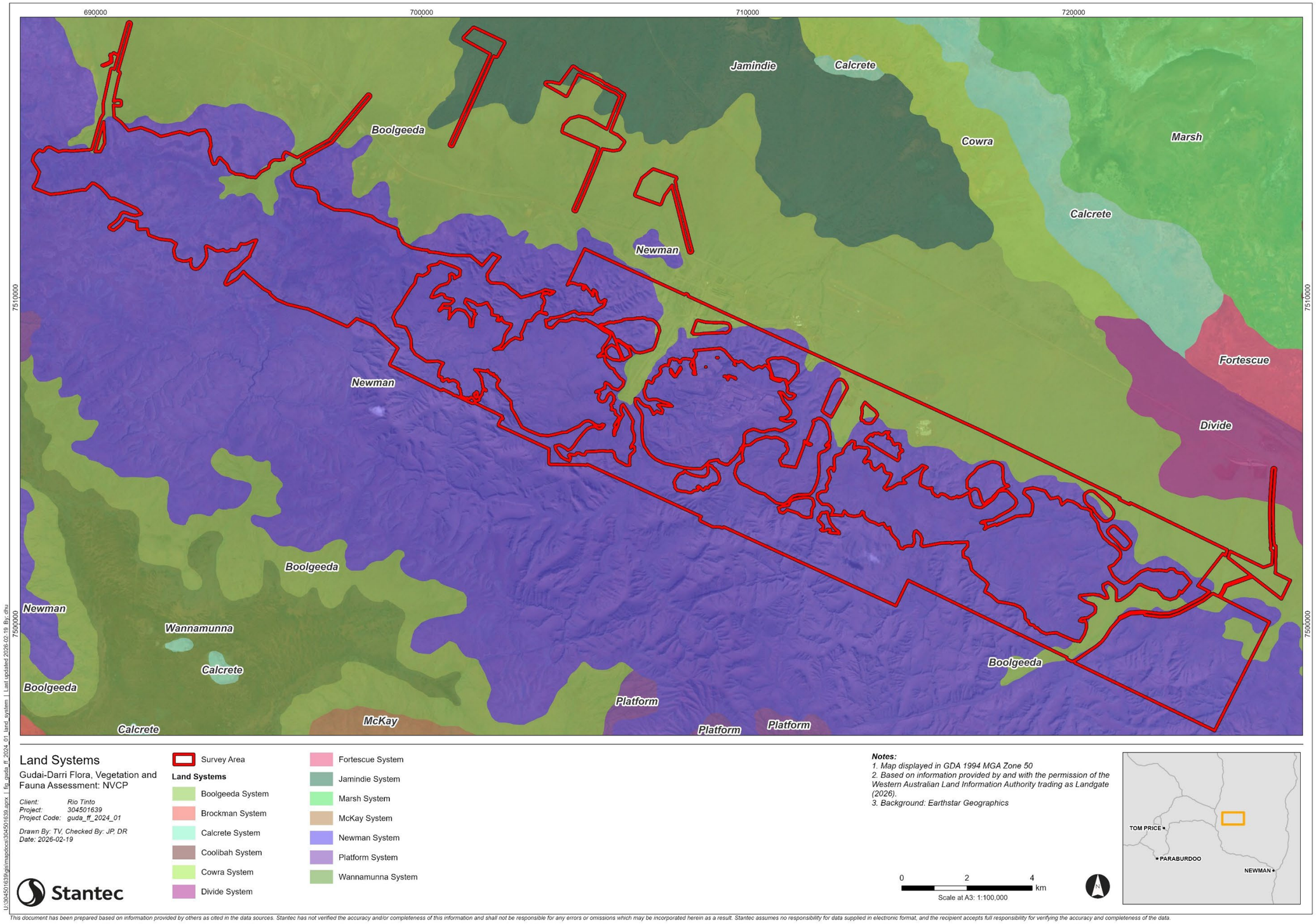

Figure 2-3: Land system mapping within the Survey Area.

2.4 Hydrology and Drainage

The Survey Area is located within the Fortescue River Catchment and the Fortescue River Upper Catchment (DWER 2025) (**Figure 2-4**). Several unnamed ephemeral drainage lines occur within the Survey Area, which are likely to have surface water flows only after significant rainfall in the local area. No larger drainage systems, such as named creeks or rivers, intersect the Survey Area and no Public Drinking Water Sources occur within the Survey Area (Government of Western Australia 2025). Weeli Wolli Creek is the nearest named watercourse to the Survey Area, located approximately 3 km east of the Survey Area (**Figure 2-4**). Weeli Wolli Creek and a series of minor watercourses within the Survey Area generally drain in a northerly direction into the Fortescue Marsh.

The Fortescue Marsh (Martuyitha) (Marsh Land System) is a Priority Ecological Community (PEC) (Priority 1), located approximately 4 km north of the Survey Area (**Figure 2-3**). The Fortescue Marsh is an extensive, episodically inundated arid wetland and samphire marsh supporting significant flora, significant vertebrate fauna, waterbirds and a rich diversity of aquatic and terrestrial invertebrates (DBCA 2023).The Fortescue Marsh is discussed further in **Section 2.9**.

Koodaideri Spring occurs within the Survey Area, adjacent to existing mining operations, and is characterised by a narrow gorge system. The 2013 Koodaideri Public Environmental Review (Eco Logical 2013) identified the Koodaideri Spring as being of “elevated conservation significance”, noting that ecological features such as this are relatively uncommon across the Pilbara bioregion. Surface water flows have been describe as being sustained by recharge from the upland areas of the adjacent range, resulting in a hydraulic head differential (Eco Logical 2013; RTIO 2015).

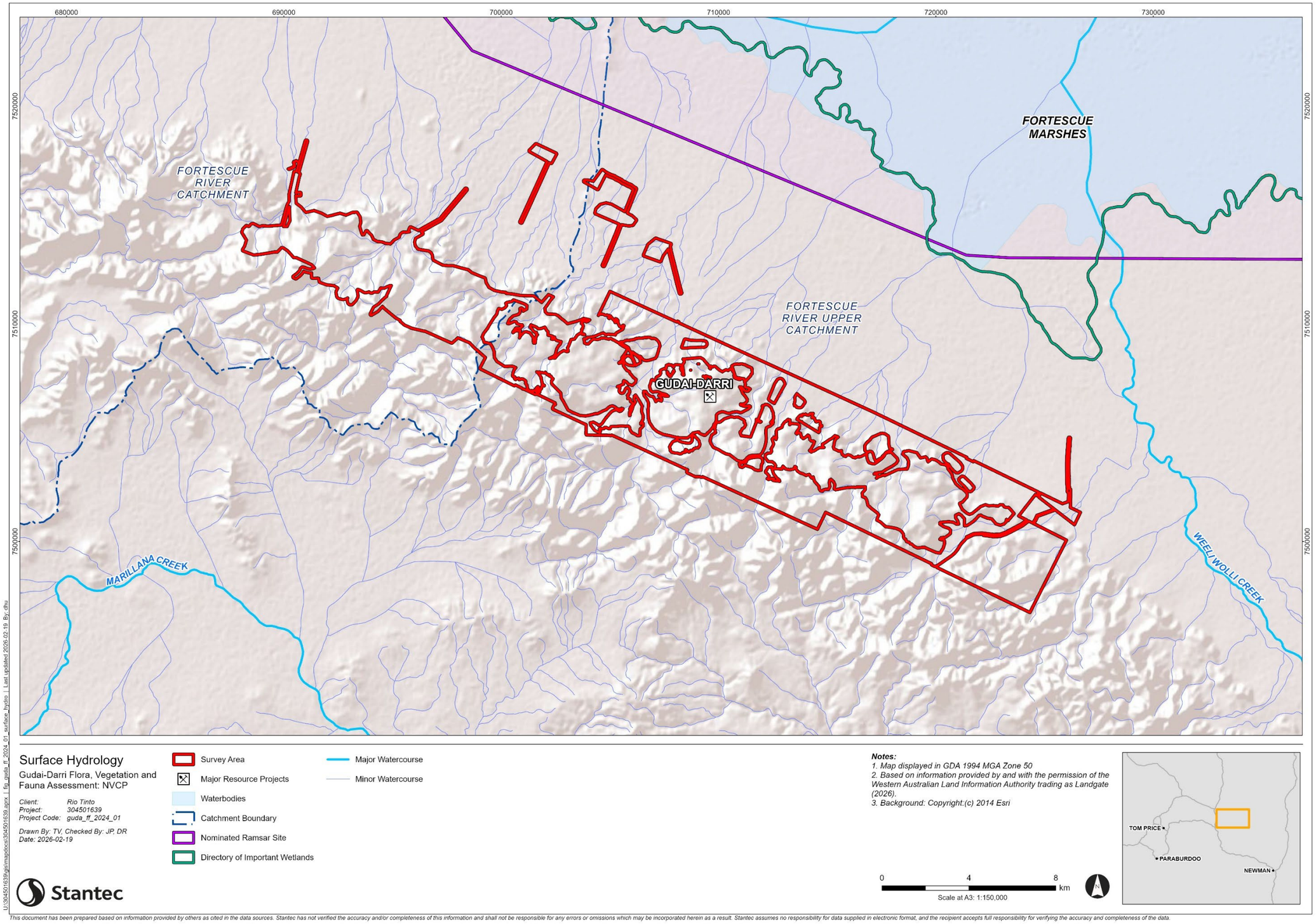

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Figure 2-4: Surface hydrology and watercourses in relation to the Survey Area.

2.5 Groundwater-dependent Ecosystems

Groundwater-dependent ecosystems (GDEs) refer to ecosystems that require groundwater to maintain their current composition, structure and functioning. GDEs may be represented as aquatic ecosystems, subterranean ecosystems or terrestrial ecosystems. Terrestrial ecosystems are those GDEs that show episodic or seasonal reliance on groundwater, river base flow systems, wetlands and estuarine systems, and includes all groundwater-dependent vegetation (GDV) (BoM 2024; Murray *et al.* 2003; Sommer and Froend 2011).

Terrestrial GDEs are primarily characterised by phreatophytes (species that rely on groundwater) being dominant in the landscape, while riparian species that may or may not access groundwater often co-occur. Phreatophytes may be classified as either obligate or facultative, depending on their reliance on groundwater (Eamus *et al.* 2016). Obligate phreatophytes are species that are highly dependent on groundwater, and regular access to groundwater is critical to their survival, while facultative phreatophytes are likely to be not totally reliant on groundwater, and are often associated with subsurface presence of groundwater (RTIO 2020).

The Groundwater-dependent Ecosystem Atlas (GDE Atlas) was developed by the Bureau of Meteorology (BoM) as a national dataset of Australian GDEs to inform groundwater planning and management under the Bioregional Assessment Program (BAP) (BAP 2016). The BAP used remote sensing to map potential GDE's, and two GDE evaluation types (the regional study and the national assessment), each classify ecosystems into five categories:

- known GDE;
- high potential GDE;
- moderate potential GDE;
- low potential GDE; and
- unclassified potential GDE.

Approximately 6,793.48 ha (56.04%) of the Survey Area has been classified as 'Moderate potential GDE' (BAP 2016; BoM 2025a) (**Table 2-5**, **Figure 2-5**). However, the mapping includes the description of landform features including rugged plateaux, ridges and mountains, rather than rivers, creeks and wetlands that are typically associated with GDEs.

Table 2-5: Groundwater-dependent Ecosystem mapping within the Survey Area(BAP 2016; BoM 2025a).

GDE Potential (From National Assessment)	Description	Extent within Survey Area (ha)	Percentage of Survey Area
Moderate potential GDE	Rugged jaspilite plateaux, ridges and mountains supporting hard spinifex grasslands.	6,782.32	55.96%
	Sandplains and occasional dunes supporting shrubby hard spinifex grasslands.	11.16	0.09%
Moderate potential GDE total		**6,793.48**	**56.04%**
Low potential GDE	Rugged jaspilite plateaux, ridges and mountains supporting hard spinifex grasslands.	2,651.47	21.87%
	Stony lower slopes and plains below hill systems supporting hard and soft spinifex grasslands or Mulga shrublands.	2,556.92	21.09%
	Stony hardpan plains and rises supporting groved Mulga shrublands, occasionally with spinifex understorey.	121.04	1.00%
Low potential GDE total		**5,329.43**	**43.96%**

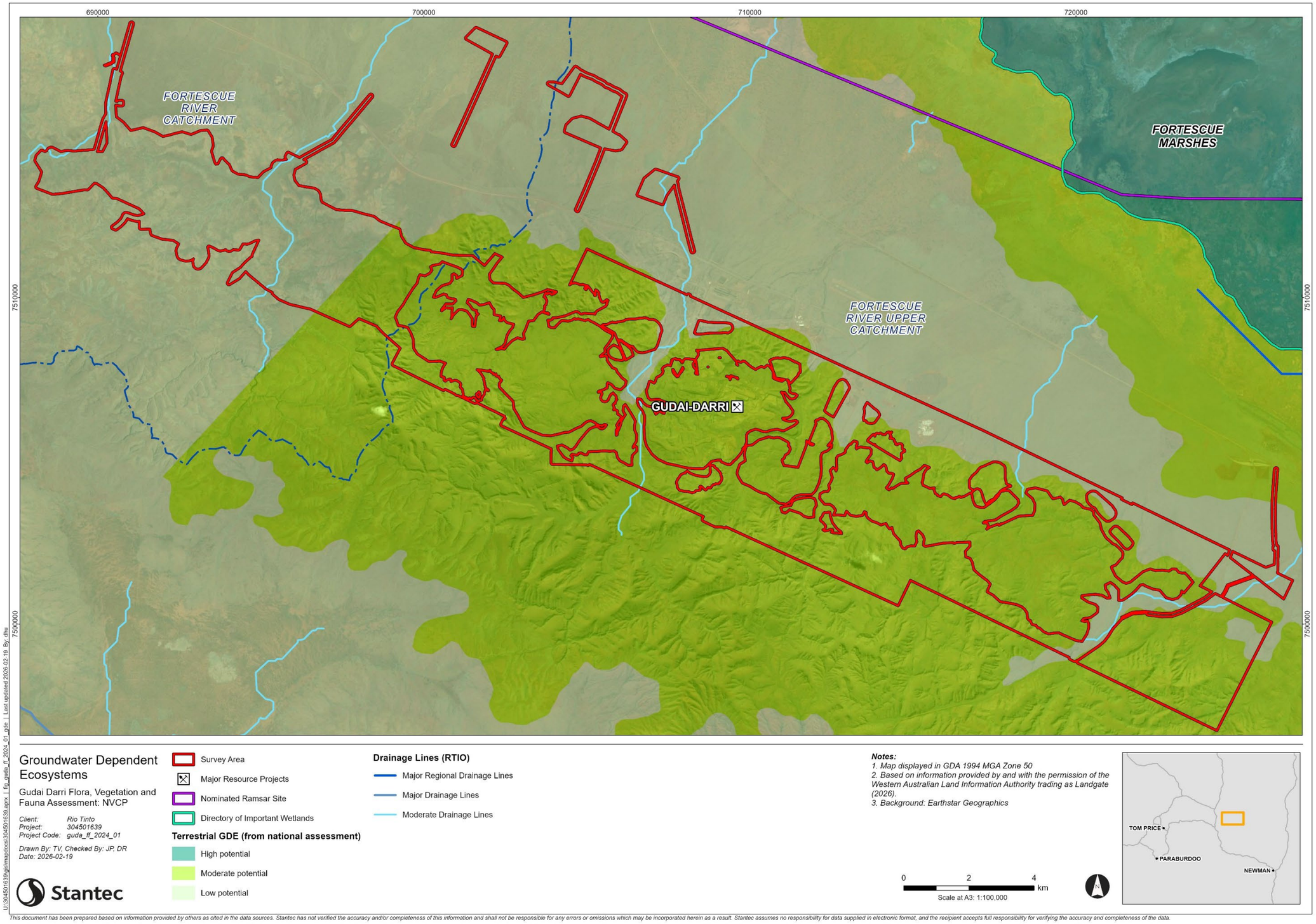

Figure 2-5: Groundwater-dependent Ecosystems in relation to the Survey Area (BAP 2016; BoM 2025a).

2.6 Geology and Soils

The Survey Area is composed of seven geological units mapped at a scale of 1:1,000,000 by Geoscience Australia (2012) (**Table 2-6**, **Figure 2-6**). The dominant geological units include the Brockman Iron Formation and Ferrugionous Duricrust units which collectively comprise approximately 60% of the Survey Area. Meanwhile, the Sandplain geological unit spans only 0.2% (22 ha) of the Survey Area (Geoscience Australia 2012).

Broadly, the Survey Area occurs at the intersection of the Hamersley Plateaux and Fortescue Valley Soil-landscape zones of Western Australia (Tille 2006). There are two mapped soil types that collectively comprise over 99% of the Survey Area (My55 and Fa13), both of which are associated with, and adjacent to the Hamersley Ranges (**Table 2-7**) (BRS 2009).

Table 2-6: Geological units of the Survey Area.

Name (Code)	Geological Description	Extent within Survey Area (ha)	Percentage of Survey Area
Brockman Iron Formation (Lchk)	Banded iron-formation, chert, mudstone and siltstone.	3,809.27	31.42%
Ferrugionous Duricrust (Czl)	Pisolitic, nodular or vuggy ferruginous laterite; some lateritic soils; ferricrete; magnesite; ferruginous and siliceous duricrusts and reworked products, calcrete, kaolinised rock, gossan; residual ferruginous saprolite Hematite-geothite deposits on banded-iron formation and adjacent scree deposits.	3,405.56	28.09%
Mount McRae Shale and Mount Sylvia Formation (Asmrs)	Interbedded shale, chert, banded iron-formation.	2,365.56	19.51%
Colluvium (QRC)	Colluvium, sheetwash, talus, gravel piedmonts and aprons over and around bedrock; clay-silt-sand with sheet and nodular kankar; alluvial and aeolian sand-silt-gravel in depressions and broad valleys in Canning Basin; local calcrete, reworked laterite	1,414.12	11.66%
Wittenoom Formation (Alhw)	Calcitic dolomite, interbedded chert and shale in upper and lower parts, volcaniclastic sandstone.	788.55	6.50%
Alluvium (QA)	Channel and flood plain alluvium; gravel, sand silt, clay, locally calcreted.	318.02	2.62%
Sandplain (Czs)	Sand or gravel plains; may include some residual alluvium; quartz sand sheets commonly with ferruginous pisoliths or pebbles; local clay, calcrete, laterite, silcrete, silt, colluvium	21.84	0.18%

Table 2-7: Soil types within the Survey Area.

Soil Type	Description	Extent within Survey Area (ha)	Percentage of Survey Area
My55	Gently sloping outwash plains generally flanking the northern face of the Hamersley Range; coarse surface gravels are extensive: chief soils are neutral red earths (Gn2.12) with some (Gn2.11) and (Dr2.33) soils.	6,288.65	51.87%
Fa13	Ranges of banded jaspilite and chert along with shales, dolomites, and iron ore formations; some areas of ferruginous duricrust as well as occasional narrow winding valley plains and steeply dissected pediments. This unit is largely associated with the Hamersley and Ophthalmia Ranges. The soils are frequently stony and shallow and there are extensive areas without soil cover: chief soils are shallow stony earthy loams (Um5.51) along with some (Uc5. 11) soils on the steeper slopes. Associated are (Dr2.33 and Dr2.32) soils on the	5,815.09	47.97%

Soil Type	Description	Extent within Survey Area (ha)	Percentage of Survey Area
	limited areas of dissected pediments, while (Um5.52) and (Uf6.71) soils occur on the valley plains.		
Ja1	Extensive valley plains, largely associated with the Fortescue River: chief soils are earthy clays (Uf6.71) along with some (Ug5.38), (Um5.5), and (Dr2.33) soils. Small areas of calcrete (kunkar) with (Um5.11) soils occur also.	18.51	0.15%
Oc71	Outwash plains with much coarse surface gravel: the chief soils are hard alkaline red soils (Dr2.33), but (Uf6.71), (Ug5.38), and (Gn2.12) soils also occur.	0.66	0.01%

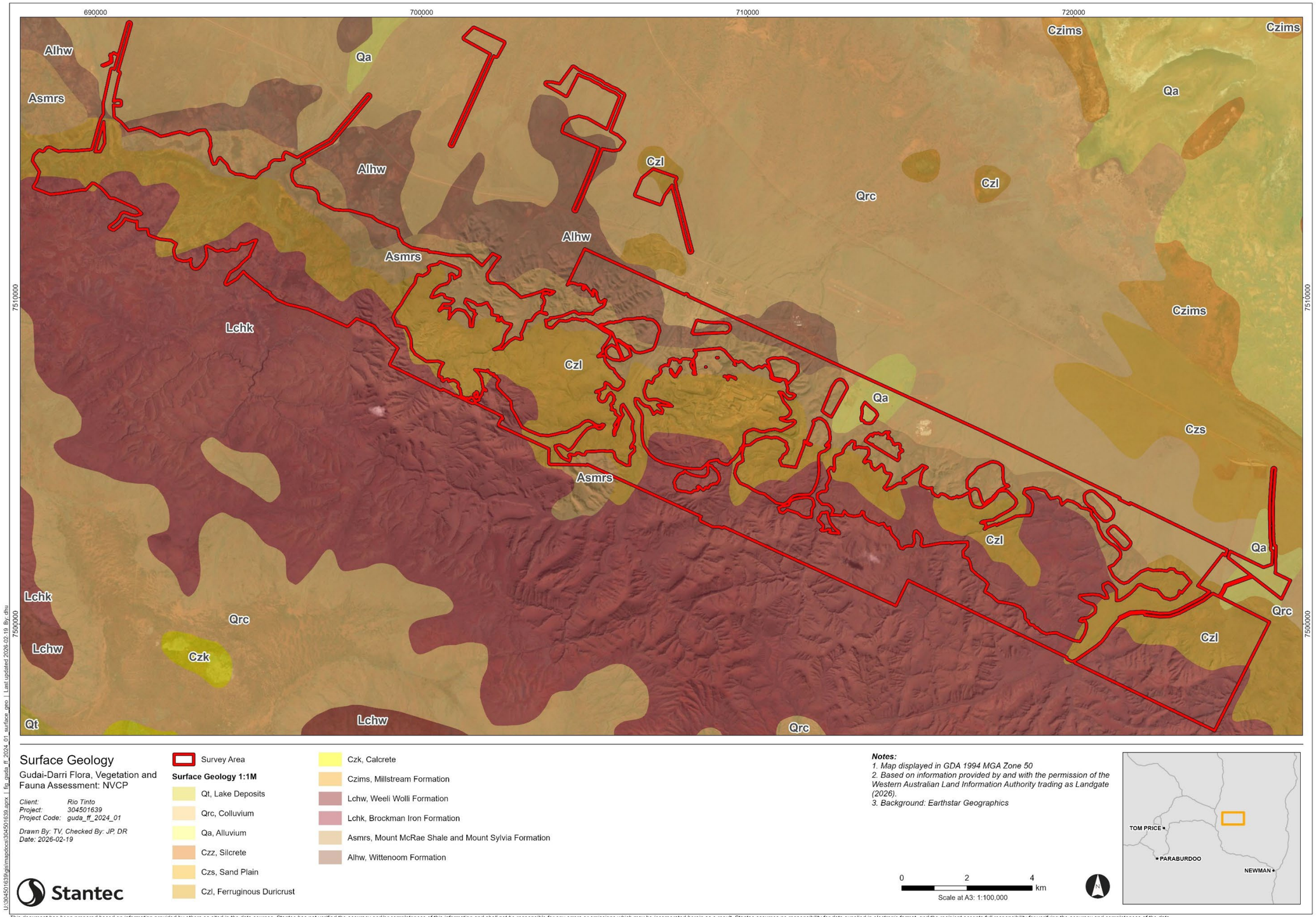

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Figure 2-6: Geological units of the Survey Area.

2.7 Climate

The climate of the Pilbara bioregion is described as comprising two distinct seasons; a hot wet summer and a mild dry winter. Annual rainfall is highly variable, ranging from approximately 350 mm in the northeast to less than 250 mm in the south and east, however elevated areas in the Hamersley Ranges can average more than 500 mm annually (Sudmeyer 2016). Annual rainfall in the eastern Pilbara is mostly influenced by tropical and monsoonal drivers, while the western Pilbara is also influenced by southern mid-latitude drivers such as frontal systems (Sudmeyer 2016). The PIL3 and PIL2 subregions are characterised by a semi-desert tropical climate with an annual average rainfall of approximately 300 mm, produced primarily during summer as a result of cyclonic and thunderstorm events. Some winter rainfall is also known to occur in the PIL3 subregion (Kendrick 2001a).

Given the variability of rainfall across the Pilbara bioregion, data from two weather stations were summarised and are presented in **Figure 2-7**. The Marillana weather station (No. 005009), located approximately 22 km east of the Survey Area, provides long-term rainfall data from 1936 to 2020 (BoM 2025b). The Newman Aero weather station (No. 007176), located approximately 109 km southeast of the Survey Area, provides rainfall data from 1971 to 2025 (BoM 2025b). Temperature data were unavailable from the Marillana weather station; however, mean maximum and minimum monthly temperature data were available from the Newman Aero weather station from 1996 to 2025.

The mean annual rainfall at Marillana is 324.1 mm; with January typically representing the wettest month (a mean monthly rainfall of 79.1 mm) (BoM 2025b) (**Figure 2-7**). The mean annual rainfall at Newman is 327.5 mm with mean monthly rainfalls for January and February being 69.0 mm and 70.2 mm respectively (BoM 2025b). Mean monthly maximum temperatures are highest in December and January (39.4°C and 39.2°C respectively), while mean monthly minimum temperatures are lowest in July (6.5°C) (BoM 2025b).

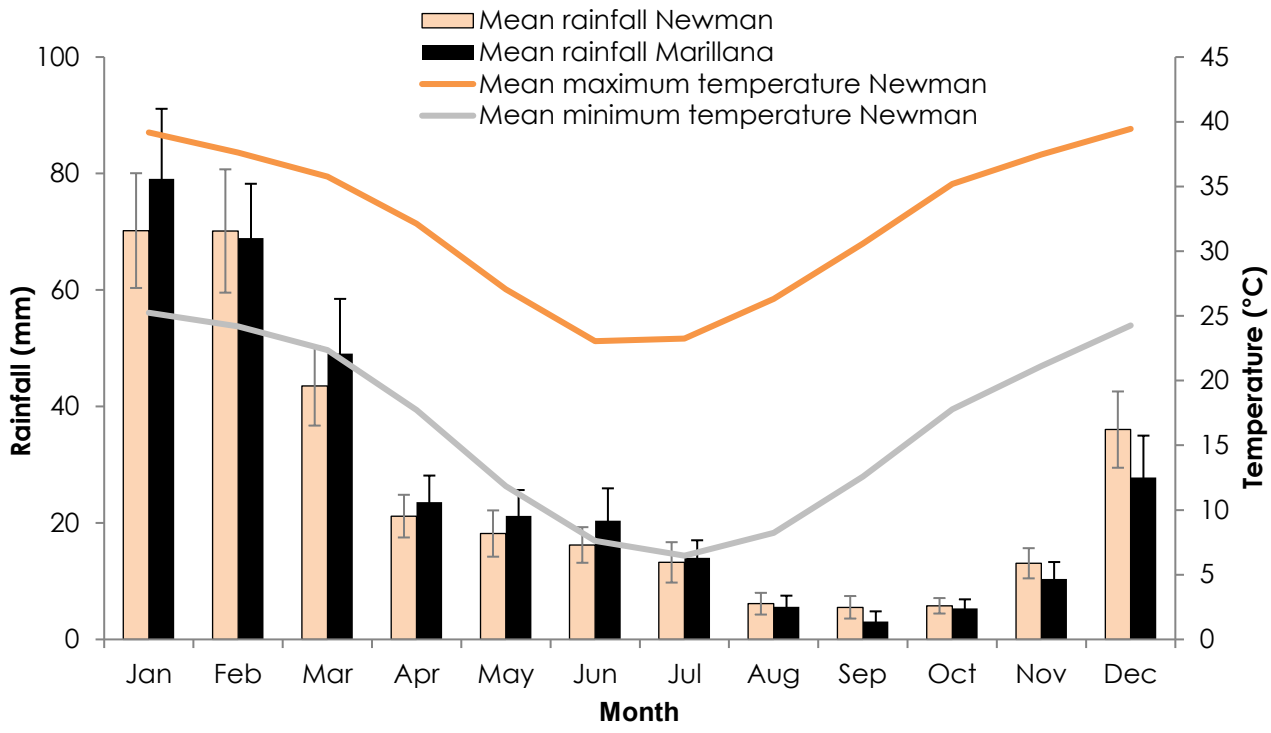


Figure 2-7: Long-term climate data from Newman Aero weather station (007176) and rainfall data from Marillana weather station (005009) (BoM 2025b).

2.8 Land Use and Tenure

The Survey Area is largely located on Unallocated Crown Land (UCL), a portion of which was excised in 2015 from Marillana Station for the purpose of conservation. Some of this land excised in 2015 has been converted into the Fortescue Marsh Nature Reserve (Class A), approximately 9 km northeast of the Survey Area, while the Survey Area is located on the portion that remains as UCL managed by Department of Biodiversity, Conservation and Attractions. Less than 20 ha (less than 0.2%) occurs on the Marillana Pastoral Station tenement (**Figure 2-8**).

The Survey Area occurs across two of the four Local Government Areas of the Pilbara: the Shire of Ashburton and the Shire of East Pilbara. Land tenure across these shires consists primarily of mining and natural resource tenements, pastoral leases, and other crown reserves, such as Aboriginal reserves and leasehold reserves (McKenzie *et al.* 2003). Other major land use categories include national parks and reserves, and unallocated crown land (McKenzie *et al*. 2003).

2.9 Conservation Reserves and Environmentally Sensitive Areas

The Survey Area does not intersect any conservation reserves, with the nearest Department of Biodiversity, Conservation and Attractions (DBCA) legislated land being the Karijini National Park, located approximately 8 km northeast of the Survey Area at its nearest position (**Figure 2-8**). The Fortescue Marsh Nature Reserve, is the next closest conservation reserve, located approximately 9 km northeast of the Survey Area, while the Mungaroona Range Nature reserve is located approximately 59 km northwest of the Survey Area.

The Fortescue Marsh is the Pilbara's largest seasonal wetland and represents the terminus for the upper Fortescue catchment area (DBCA 2018). Several important flora assemblages (including significant flora and halophytes) and vegetation communities are found within and surrounding the Fortescue Marsh. The Fortescue Marsh is mapped and classified under several different databases, as such, they occur at varying distances from the Survey Area.

Given the unique and significant ecological values within the wetland, on 20 June 2024, the WA Government announced a proposal for the creation of a Class A nature reserve comprising approximately 106,000 ha of the Fortescue Marsh. A draft joint management plan for the Fortescue Marsh was prepared by the DBCA and the Karlka Nyiyaparli Aboriginal Corporation, and released for public comment in December 2024 (DBCA and Karlka 2024). The Fortescue Marsh Nature Reserve was created under the WA Government's *Plan for our Parks* Initiative, and is situated 8.2 km from the Survey Area (**Figure 2-8**).

Under Section 51B of the EP Act, Environmentally Sensitive Areas (ESAs) are declared by the Minister for Environment (Government of Western Australia 2005). The aim is to protect these areas from degradation of environmental values which may include threatened flora, threatened fauna, threatened ecological communities (TECs), Bush Forever sites, national parks, or significant wetlands. Criteria for the declaration of ESAs are presented in **Appendix A** and do not include State-listed PECs which are managed by DBCA. No ESAs have been mapped within the Survey Area, despite numerous records of threatened flora occurring in the Survey Area (**Section 3.1.2**); however, this is considered to likely represent a lag in the updates to the ESA dataset.

The Fortescue Marsh is classified as an ESA and occurs approximately 5.7 km north of the Survey Area, as determined by the Australian National Conservation Agency (**Figure 2-8**). Additionally, the DBCA is considering nominating the Fortescue Marsh as a Ramsar wetland (DBCA 2018; 2025). The boundary of this proposed nomination is located 2.8 km from the Survey Area which is the nearest occurrence of the various mapped representations of the Fortescue Marsh (**Figure 2-8**).

Furthermore, the Directory of Important Wetlands (DIW) identifies nationally important wetlands and provides a substantial knowledge base of what defines wetlands, their variety, and the many flora and fauna species that depend on them. In addition, it contains information about their social and cultural values and some of the ecosystem services and benefits they provide. The Fortescue Marsh is included in the DIW list, with the nearest mapped occurrence located 3.6 km from the Survey Area (**Figure 2-8**). Although the directory has not been updated since 2005, it is still publicly available and includes over 900 wetlands across Australia (DCCEEW 2024a).

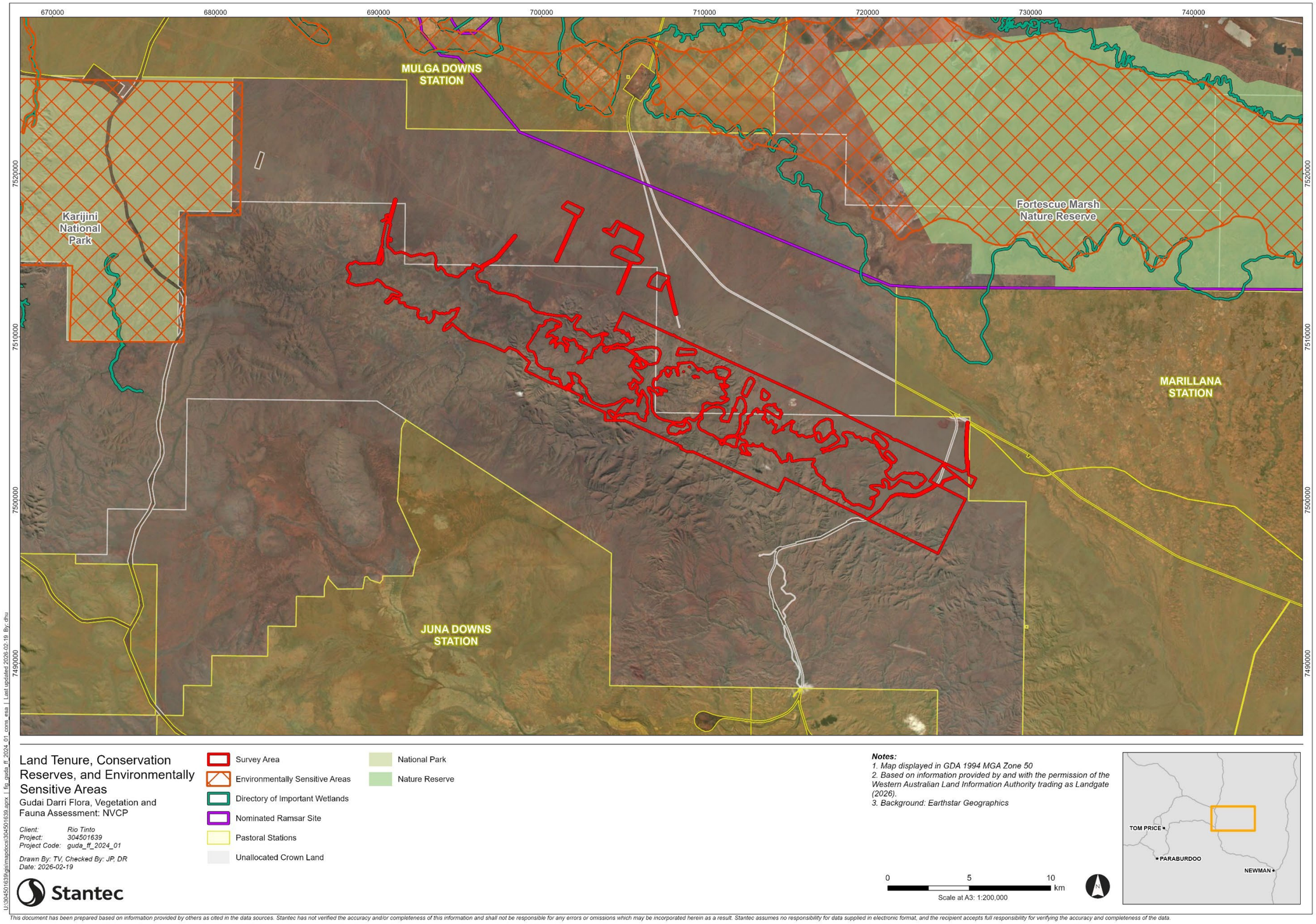


Figure 2-8: Land tenure, conservation reserves and Environmentally Sensitive Areas in relation to the Survey Area.

3. Methods

3.1 Desktop Assessment

3.1.1 Database Searches

Database searches (**Table 3-1**) were conducted to compile a list of vascular flora and vegetation previously recorded within, and in the vicinity of, the Survey Area. The focus was on species and communities of conservation significance and introduced species. The relevant conservation frameworks for significant flora and ecological communities are provided in **Appendix B**.

Database searches were conducted using a buffer around the Survey Area or a central coordinate within the Survey Area. Appropriate search buffers were established according to the technical capabilities of the databases and the ecological features of the area. The results of the database searches are provided in **Appendix C**. Additionally, Rio Tinto maintain a significant flora database, and the applicable data were provided and incorporated into the findings of this report.

Table 3-1: Database searches conducted for the desktop assessment.

Custodian	Database	Buffer (km)	Date of Results Receipt
Atlas of Living Australia (ALA 2024)	Atlas of Living Australia (ALA): Flora	50	14/11/2024
Department of Biodiversity, Conservation and Attractions (DBCA 2024c)	Dandjoo: Flora	110	14/11/2024
Department of Biodiversity, Conservation and Attractions (DBCA 2024d)	NatureMap	50	17/12/2024
Department of Biodiversity, Conservation and Attractions (DBCA 2024e)	Threatened and Priority Ecological Community buffers and boundaries in WA	50	18/11/2024
Department of Biodiversity, Conservation and Attractions (DBCA 2024a)	Threatened (Declared Rare) and Priority Flora Database (TPFL)	50	18/11/2024
Department of Biodiversity, Conservation and Attractions (DBCA 2024b)	Western Australian Herbarium (WAH) Specimen Database	50	18/11/2024
Department of Climate Change, Energy, the Environment and Water (DCCEEW 2024b)	Protected Matters Search Tool (PMST)	50	25/11/2024
RTIO (2025a)	Rio Tinto Significant Flora Database Records	Pilbara-wide	2024-2025

3.1.2 Literature Review

A literature review was undertaken to compile important information on the vegetation types and significant flora that might be present within, and in the vicinity of, the Survey Area. This information contributes to an overall understanding of the area in its regional context and was compiled prior to conducting the Stantec survey. Historic vegetation mapping (Beard 1975a; Shepherd *et al.* 2002), soil and landform mapping and characteristics (Tille 2006), geological mapping (Geoscience Australia 2012), and IBRA classification system information (van Vreeswyk *et al.* 2004) were reviewed to provide broad context.

Numerous ecological surveys have been conducted in the local region of Gudai Darri over the past 25 years, and the most relevant reports and data were examined to gain an understanding of previously recorded information and environmental values. **Table 3-2** presents a summary of previous flora and vegetation surveys. The extent of previous flora and vegetation surveys in relation to the Survey Area is presented in **Figure 3-1**.

Table 3-2: Literature review for the flora and vegetation desktop assessment. Each previous survey at least partially overlaps with the Survey Area for the Stantec survey.

Report Title (Reference)	Survey Details	Survey Effort	Flora Recorded	Vegetation Types Recorded	Significant Flora Recorded	Significant Vegetation	Limitations
Detailed (previously Level 2) Flora and Vegetation Surveys							
A Vegetation and Flora Survey of the Koodaideri Study Area (Biota 2012f)	Survey Area Size: 11,991 ha Survey Dates: 5 – 10 July 2010 9 – 18 March 2011 6 – 12 May 2011 Seasonal Conditions: Below average for Phase 1 (2010) and above average for Phase 2 (2011)	62 quadrats 2 relevés 183 mapping notes	384 native vascular flora	25 vegetation types (including two mosaics)	*Themeda* sp. Hamersley Station (M.E. Trudgen 11431) (P3) *Eremophila magnifica* subsp. *magnifica* (P4) *Rhynchosia bungarensis* (P4) *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P4) (No longer listed)	No TECs or PECs Koodaideri Spring (considered to be elevated conservation significance (Eco Logical 2013))	Some sections of the study area, particularly in the southern half, were not surveyed as they were inaccessible by vehicle. The entire survey area was not systematically searched for rare flora as part of the current survey; however, large sections have been subject to rare flora surveys as part of previous Studies. No clustering analysis has been conducted using floristic data from the quadrats and relevés from this study, as there is currently limited comparable data available from the locality.
Koodaideri Iron Ore Project Vegetation and Flora Integration Report (Biota 2012b)	Survey Area Size: 67,857 ha Survey Dates: Summarises a series of surveys previously completed in the Koodaideri survey area, the majority of which were undertaken in 2011 and 2012 Seasonal Conditions: Varied (see individual reports)	403 quadrats 30 relevés (162 quadrats and 5 relevés were sampled twice The majority of survey effort was conducted separately and presented in five reports that were consolidated by the report: Biota (2012e) Biota (2012d) Biota (2012f) Biota (2012a) Biota (2012c)	758 native vascular flora	110 vegetation types: 21 foothills, hill slopes and hill crests; 51 plains; 38 drainage lines, gullies and gorges).	*Synostemon hamersleyensis* (T) *Acacia subtiliformis* (P3) *Goodenia* sp. East Pilbara (A.A. Mitchell PRP 727) (P3) *Gymnanthera cunninghamii* (P3) *Isotropis parviflora* (P3) *Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3) *Rostellularia adscendens* var. *latifolia* (P3) *Themeda* sp. Hamersley Station (M.E. Trudgen 11431) (P3) *Eremophila magnifica* subsp. *magnifica* (P4) *Lepidium catapycnon* (P4) (No longer listed) *Ptilotus mollis* (P4) *Rhynchosia bungarensis* (P4) *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P4) (No longer listed)	No TECs or PECs	Access constraints, no sampling to some sections. Sampling effort was not equal. The majority of quadrats were only sampled once. The timing of some of the survey phases was not optimal for recording annual or cryptic species. Fire regimes limited confidence in some vegetation type mapping, some vegetation boundaries should be treated as indicative rather than absolute. Some vegetation types were described from mapping notes or one quadrat only.
Koodaideri Southern Infrastructure Corridor Vegetation and Flora Survey (Biota 2012a)	Survey Area Size: 12,022 ha Survey Dates: 3-12 May 2011 6-11 October 2011 1-7 May 2012 Seasonal conditions: Phase 1 (2011) had optimal conditions While Phase 2 (2012) had below average conditions.	98 quadrats 15 relevés	557 native vascular flora	49 vegetation sub-associations were identified, associated with three broad landscape categories: foothills, hill slopes and hill crests; plains and floodplains; and drainage lines, gullies and gorges.	*Isotropis parviflora* (P3) *Vittadinia ?pustulata* (P3) *Acacia subtiliformis* (P3) *Goodenia* sp. East Pilbara (A.A Mitchell PRP 727) (P3) *Gymnanthera cunninghamii* (P3) *Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479) (P3) *Rostellularia adscendens* var. *latifolia* (P3) *Themeda* sp. Hamersley Station (M.E. Trudgen 11431) (P3) *Rhynchosia bungarensis* (P4)	No TECs or PECs	The entire survey area was not systematically searched so its possible additional populations of flora of conservation significance or introduced species could be present. The majority of the quadrats were surveyed twice but some were only surveyed once. Fire regimes limited confidence in some vegetation type mapping, some vegetation boundaries should be treated as indicative rather than absolute. Some vegetation types were described from mapping notes or one quadrat only.
Koodaideri Northern Extension Area Vegetation and Flora Survey (Biota 2012c)	Survey Are Size: 4,991 ha Survey Dates: November 2011 April and May 2012	39 quadrats 1 relevés 517 mapping notes	285 native vascular flora	18 vegetation sub-associations were identified, associated with three broad landform categories: foothills, hill crests and slopes; stony plains; and drainage lines and floodplains.	*Lepidium catapycnon* (P4) (No longer listed)	No TECs or PECs	The entire study area was not systematically searched. The species list should therefore be taken as indicative rather than exhaustive. Some of the study area was not walked, therefore areas of mapping relied solely on the interpretation of aerial photography.

Report Title (Reference)	Survey Details	Survey Effort	Flora Recorded	Vegetation Types Recorded	Significant Flora Recorded	Significant Vegetation	Limitations
	Seasonal conditions: Phase 1 (2011) had below average conditions. Phase 2 (2012) had above average conditions.						Some vegetation types were described from mapping notes or one quadrat only.
Koodaideri Western Rail Corridor Vegetation and Flora Survey (Biota 2012e)	Survey Area Size: 38,628 ha Survey Dates: 21-28 July 2011 3 trips between March-May 2012 Seasonal conditions: Below average conditions for Phase 1 (2011) and above average conditions for Phase 2 (2012)	191 quadrats	496 native vascular flora	45 vegetation types were recorded from three broad landform categories: stony hills and slopes, plains, and drainage lines and associated floodplains.	*Rostellularia adscendens* var. *latifolia* (P3) *Goodenia nuda* (P4 – No longer listed)	No TECs or PECs	A 9 km section of the survey area was not surveyed due to a no-work exclusion zone. Some of the study area was not walked, therefore areas of mapping relied solely on the interpretation of aerial photography. Some vegetation types were described from mapping notes or one quadrat only. Seasonal sampling after winter rains was not undertaken. The entire survey area was not systematically searched so its possible additional populations of flora of conservation significance or introduced species could be present.
Addendum to Koodaideri Mining Lease Vegetation and Flora Survey Biota (2013)	Survey Area Size: 2,277 ha Survey Dates: 11 – 15 April 2013 Seasonal Conditions: Optimal	13 quadrats 2 relevés 42 mapping notes	199 native vascular flora	14 vegetation types	*Rostellularia adscendens* var. *latifolia* (P3) *Lepidium catapycnon* (P4) (No longer listed) *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P4) (No longer listed)	No TECs or PECs	Fire regimes limited confidence in some vegetation type mapping, some vegetation boundaries should be treated as indicative rather than absolute. The survey area was not systematically searched and only a single phase of sampling was conducted. The species list compiled for the study area includes some taxa that are unresolved and currently not recognized.
Gudai Darri Solar Site Reconnaissance and Targeted Flora, Basic and Targeted Fauna Survey (GHD 2023)	Survey Area Size: 445 ha Survey Dates: 31 October – 6 November 2022 Seasonal Conditions: Sub-optimal	Reconnaissance and Targeted Flora, Basic and Targeted Fauna Survey	91 vascular flora representing 87 native taxa	8 vegetation types	None	No TECs or PECs	Not within the recommended timing for primary flora surveys in the Eremaean Botanical Province, which is specified as six to eight weeks post-wet season (March to June).
NVCP Application Surveys							
Koodaideri Camps: Native vegetation Clearing Permit Report (Biota 2011)	Survey Area Size: 808.06 ha Survey Dates: 21 – 29 July 2011 Seasonal conditions: Sub-optimal	12 quadrats	190 native vascular flora	Seven vegetation sub associations from three broad landforms were identified: low hills, stoney plains, minor drainage lines	None	No TECs or PECs	Vegetation mapping was based on aerial photography, ddelineation of currently disturbed areas may therefore be inaccurate for some areas. The entire survey area was not systematically searched so its possible additional populations of flora of conservation significance or introduced species could be present.
Addendum to the Exploration Drilling at Koodaideri (K85W) NVCP Report (RTIO 2013a)	Survey Area Size: Not available Survey Dates: 5 – 8 August 2013 Seasonal Conditions: Not available	Traverse of track alignment	Not available	24 vegetation types	*Rhynchosia bungarensis* (P4)	No TECs or PECs	None identified

Report Title (Reference)	Survey Details	Survey Effort	Flora Recorded	Vegetation Types Recorded	Significant Flora Recorded	Significant Vegetation	Limitations
Koodaideri Biological Assessment (Eco Logical 2014b)	Survey Area Size: 314 ha Survey Dates: 28 May – 5 June 2014 Seasonal Conditions: Adequate	Assessment to support an NVCP application	131 native vascular flora	4 vegetation types	*Rhynchosia bungarensis* (P4)	No TECs or PECs	One small portion of the south-eastern section of the study area was inaccessible due to safety reasons.
Koodaideri Biological Assessment (AR-14-12497 & AR-14-12498) (Eco Logical 2014c)	Survey Area Size: 123 ha Survey Dates: 10 – 13 September 2014 Seasonal Conditions: Below average	Assessment to support an NVCP application	69 native vascular flora	2 vegetation types	None	No TECs or PECs	None identified
Koodaideri Biological Assessment (AR-14-12450 (Eco Logical 2014a)	Survey Area Size: 522 ha Survey Dates: 13 – 18 September 2014 Seasonal Conditions: Below average	Assessment to support an NVCP application	113 native vascular flora	4 vegetation types	*Rhynchosia bungarensis* (P4)	No TECs or PECs	Small portion of the study area were inaccessible due to safety reasons
Koodaideri Resource Evaluation Strategic NVCP Report (Biota 2015)	Survey Area Size: 4,243 ha Survey Dates: 30 September – 8 October 2015 Seasonal Conditions: Above average	20 quadrats 7 relevés 283 mapping notes Targeted searches and mapping traverses	236 native vascular flora	15 vegetation types associated with four broad landform categories: stony hills and slopes; plains; drainage lines and associated floodplains; and gorges.	*Eremophila naaykensii* (P3) *Rostellularia adscendens* var. *latifolia* (P3) *Lepidium catapycnon* (P4) (No longer listed) *Rhynchosia bungarensis* (P4) *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P4) (No longer listed)	No TECs or PECs	Seven vegetation types were not described based on at least two sample sites. The survey was conducted in Spring, therefore some wet-season annual species may not have been detectable. A small portion of the survey area was a large distance from any access point, and not surveyed.
Desktop Flora, Vegetation and Fauna Habitat Assessment at Koodaideri Native Vegetation Clearing Permit – Supporting Report (RTIO 2015)	Survey Area Size: 8,826 ha Survey Dates: Not applicable Seasonal Conditions: Not applicable	Desktop assessment only	Desktop assessment only	25 vegetation types (previously recorded)	Six previously recorded significant flora: *Synostemon hamersleyensis* (T) *Eremophila naaykensii* (P3) *Rostellularia adscendens* var. *latifolia* (P3) *Eremophila magnifica* subsp. *magnifica* (P4) *Lepidium catapycnon* (P4) (No longer listed) *Rhynchosia bungarensis* (P4)	No TECs or PECs	None identified
Flora, Vegetation and Fauna Habitat Assessment at Koodaideri Native Vegetation Clearing Permit – Supporting Report (RTIO 2016)	Survey Area Size: 1,312 ha Survey Dates: 17 – 26 May 2016 Seasonal Conditions: Below average	63 relevés Targeted searches and mapping traverses	134 native vascular flora	12 vegetation types	*Synostemon hamersleyensis* (T) *Acacia bromilowiana* (P4)	No TECs or PECs	Below average rainfall was recorded in the three months preceding the May 2016 survey; therefore, the suite of annual, herbaceous and ephemeral species may be slightly under-represented.

Report Title (Reference)	Survey Details	Survey Effort	Flora Recorded	Vegetation Types Recorded	Significant Flora Recorded	Significant Vegetation	Limitations
Targeted Flora Surveys							
Gudai Darri Targeted Flora Survey (Stantec 2024)	Survey Dates: 16 – 23 August 2024 Seasonal Conditions: Adequate	Targeted searches	*Synostemon hamersleyensis* (T)	Not applicable	*Synostemon hamersleyensis* (T)	Not applicable	Burnt vegetation
Synostemon hamersleyensis Targeted Survey, July 2023 (RTIO 2023b)	Survey Dates: 2 – 7 July 2023 Seasonal Conditions: Adequate	Targeted flora survey	*Synostemon hamersleyensis* (T) *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P4) **Chloris gayana*	Not applicable	*Synostemon hamersleyensis* (T) *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P4) (No longer listed)	Not applicable	None identified
Synostemon hamersleyensis Targeted Survey, September 2023 (RTIO 2023c)	Survey Dates: 18 – 22 September 2023 Seasonal Conditions: Adequate	Targeted flora survey	*Synostemon hamersleyensis* (T) *Eremophila naaykensii* (P3)	Not applicable	*Synostemon hamersleyensis* (T) *Eremophila naaykensii* (P3)	Not applicable	None identified
Synostemon hamersleyensis Targeted Survey, November 2023 (RTIO 2023a)	Survey Dates: 6 – 10 November 2023 Seasonal Conditions: Adequate	Targeted flora survey	*Synostemon hamersleyensis* (T) *Eremophila magnifica* subsp. *magnifica* (P3) *Eremophila naaykensii* (P3) *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P4)	Not applicable	*Synostemon hamersleyensis* (T) *Eremophila naaykensii* (P3) *Eremophila magnifica* subsp. *magnifica* (P4) *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P4) (No longer listed)	Not applicable	None identified
Targeted Survey for *Lepidium catapycnon* at Koodaideri (Biota 2014)	Survey Dates: 17 – 19 February 2014 Seasonal Conditions: Adequate	Targeted flora survey	*Lepidium catapycnon*	Not applicable	*Lepidium catapycnon* (P4) (No longer listed)	Not applicable	Burnt vegetation
Report on Targeted Botanical Survey Work for *Sauropus* sp. Koodaideri detritals (J. Naaykens & J. Hurter JH 11213) within the North Eastern Hamersley Ranges (RTIO 2013b)	Surveys were conducted by Rio Tinto botanists between October 2011 and October 2013: 15 – 20 October 2011 5 – 11 November 2012 8 June 2013 11 – 18 September 2013 13 – 18 October 2013	Targeted flora survey	*Synostemon hamersleyensis* (T)	Not applicable	*Synostemon hamersleyensis* (T)	Not applicable	The vast area of potential habitat not thoroughly searched. Challenging terrain prevented extensive traverses. The range of the species was not determined with certainty; further populations are likely to occur.

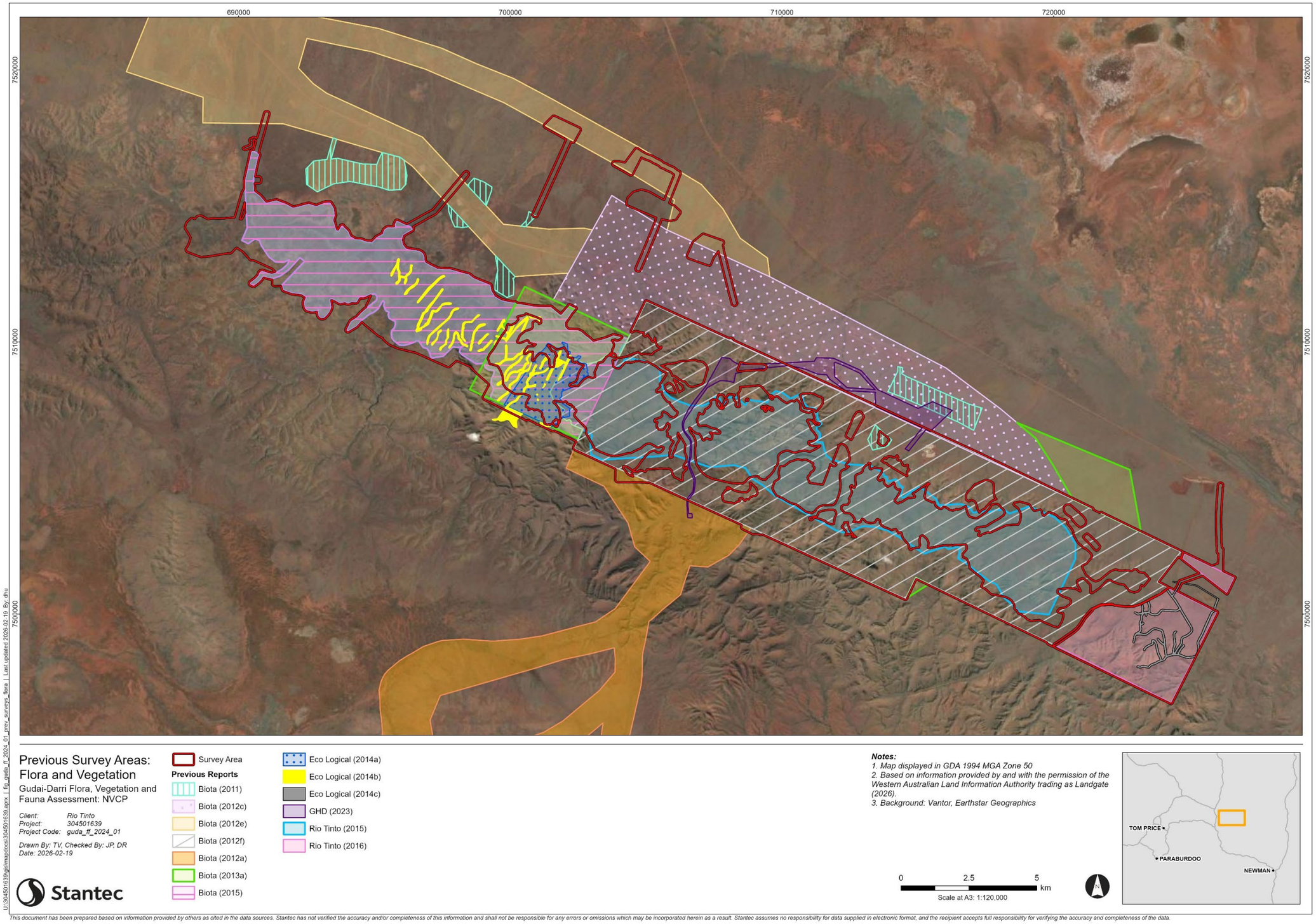


Figure 3-1: Previous flora and vegetation surveys in relation to the Survey Area.Figure excludes targeted flora surveys.

3.1.3 Likelihood of Occurrence

Prior to undertaking the Stantec survey, the significant species identified from the database searches and literature review were assessed for their likelihood of occurrence within the Survey Area. This assessment was based on interpretation of habitat types from aerial imagery, known preferred habitat and the nearest known location of each species. Each species of significant flora was assessed and ranked for likelihood of occurrence in the Survey Area according to the criteria presented in **Table 3-3**.

Following the Stantec survey, the significant flora identified from the database searches and literature review were re-assessed to determine their post-survey likelihood of occurrence within the Survey Area. This assessment was based on the suitability of the habitat observed during the Stantec survey, as well as any limitations that may have impacted the detection of species.

Table 3-3: Criteria used for assessing the occurrence of significant flora in the Survey Area.

Likelihood Levels and Criteria
Likelihood: **Confirmed**
The species has been recorded unambiguously within the Survey Area from: • recent surveys of the Survey Area; • reliable records obtained via database searches; or • from current vouchered specimens at the WAH.
Likelihood: **Likely**
There is a medium to high likelihood that the species occurs in the Survey Area, as: • the Survey Area occurs within the known distribution of the species; • the Survey Area contains suitable habitat (either year-round or intermittently, such as temporary surface water); and • the species has been recorded recently nearby.
Likelihood: **Possible**
There is potential for the species to occur in the Survey Area, as: • The species has not been recorded recently nearby, however; – the species may not have been detectable during current or previous surveys (e.g. the species is cryptic, rare, patchily distributed, or non-optimal survey timing). • The species has been recorded recently nearby and species presence cannot be ruled out due to factors such as species ecology or distribution, however; – doubt remains over taxonomic identification. – the majority of habitat does not appear suitable. – coordinates are doubtful.
Likelihood: **Unlikely**
The species is unlikely to occur in the Survey Area as: • the Survey Area lacks suitable habitat, having at best marginally suitable habitat, and/or being severely degraded; • only recorded from a few historic record/s and no other collections in the area; and • the species has not been recorded in the Survey Area despite adequate survey efforts, such as a standardized methodology or targeted searching within potentially suitable habitat.

3.2 Field Survey

3.2.1 Survey Timing and Seasonal Conditions

The EPA (2016a) recommends that flora and vegetation surveys be undertaken following the season of highest rainfall, to optimise the likelihood of encountering flowering and fruiting taxa, and capturing ephemeral species (a primary survey). The recommended primary survey timing for the Eremaean Botanical Province, within which the Survey Area lies, is six to eight weeks post-wet season (indicatively, March to June). The flora and vegetation survey was conducted over 12 days from 10 to 21 March 2025, within the recommended timeframe.

Daily rainfall data was sourced from the Gudai Darri Solar Farm weather station to assess seasonal conditions at the local scale. In the 12 months prior to the Stantec survey (March 2024 to February 2025), the total recorded rainfall of 579.6 mm at Gudai Darri was substantially greater than the long-term mean annual rainfall of 324.1 mm at Marillana and 327.5 mm at Newman Aero weather stations (**Figure 3-2**) (BoM 2025b). The above average rainfall was largely due to significant rainfall totals in March, June and September 2024. The monthly rainfall of 111 mm recorded at Gudai Darri in September 2024 is considered particularly unusual for the dry season for the Pilbara. A total of 48 mm of rainfall was recorded Newman Aero weather station in September 2024, which is also well above the monthly average (BoM 2025b).

The rainfall recorded at the Gudai Darri Solar Farm in the three months prior to the Stantec survey was 156.6 mm, which is approximately 19% and 11% lower than the long-term mean monthly rainfall totals for the same period recorded at both Marillana and Newman Aero weather stations (193.3 mm and 176.4 mm, respectively) (BoM 2025b). The rainfall recorded at the Gudai Darri Solar Farm for December 2024 was more than twice the monthly average at Marillana and Newman Aero weather stations, however rainfall for January and February was well below average (**Figure 3-2**).

Approximately three weeks prior to the Stantec survey, Severe Tropical Cyclone Zelia crossed the Pilbara coast between De Grey and Whim Creek as a category 4 system on 14 February 2025. Prior to this, Severe Tropical had reached category 5 intensity, however following landfall, Cyclone Zelia weakened to a tropical low on 15 February 2025 and tracked in a southerly direction (BoM 2025b). A total of 33.2 mm of rainfall was recorded at the Gudai Darri Solar Farm weather station over three days between 13 and 15 February 2025 in association with this weather system. During the Stantec survey, 31.8 mm of rainfall was recorded on 19 March at the Gudai Darri Solar Farm weather station, attributed to localised storm cells.

During the Stantec survey, on-ground conditions were often noted to be below average compared to typical post-wet seasonal conditions for the Pilbara bioregion. Grasses and herbaceous species generally appeared desiccated across most landforms that were traversed.

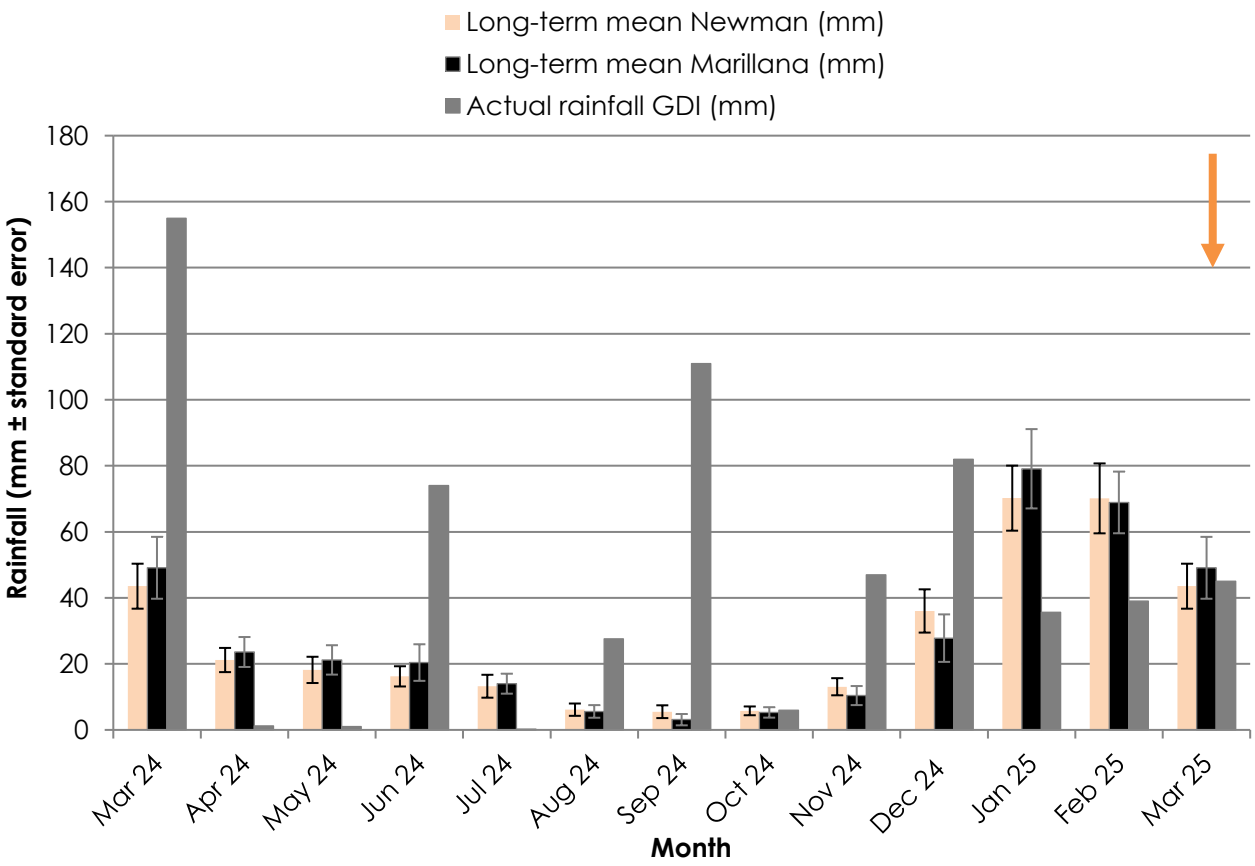


Figure 3-2: Total monthly recorded rainfall data from the Gudai Darri Solan Farm weather station and long-term mean monthly rainfall from Marillana weather station (005009) and Newman Aero Weather Station (007176) (BoM 2025b). Orange arrow indicates survey timing

3.2.2 Survey Team and Licencing

The personnel responsible for the design and execution of the Stantec survey have extensive experience in survey planning, logistics, significant species and sampling methods required in the Eremaean Botanical Province and Eremaean Climatic Region of WA. Daniel Roocke, an experienced botanist with approximately 15 years' experience in undertaking surveys in the Pilbara, led the planning and implementation of the Stantec survey, data management and reporting. All staff who undertook the field surveys are experienced in conducting flora and vegetation assessments, or fauna surveys as relevant to their roles as botanists or zoologists. In accordance with EPA (2016a) and EPA (2020), the Stantec survey was led by scientists with at least five years' experience conducting surveys in the Pilbara bioregion (**Table 3-4**).

Table 3-4: Personnel responsible for the Stantec survey.

Name	Survey Role	Qualifications	WA Survey Experience (Years)	Licenses
Daniel Roocke	Botanist, Project lead	BSc. (Botany & Ecology) Certs II, III, IV Horticulture	15	FB62000235 TFL 129-1920
Scott Pansini	Botanist	BSc Cons. & Wildlife Biology, Biological Sciences	6	FB62000122-2 TFL 2223-0005
Owen Raynor	Botanist	BSc (Conservation and Wildlife Biology)	3	FB62000577 TFL 2223-0172
Jac Clark	Botanist	BSc (Environmental Management) Marine and Freshwater Science	3	FB62000506 TFL 2223-0108
Andrew Greenley	Botanist	BSc (Biological Science, Conservation & Wildlife Biology, and Molecular Biology) BSc Honours (Conservation Biology)	1	FB62000781 TFL 2425-0127
Eva Spiegl	Botanist	BSc (Conservation Biology and Zoology)	1	FB62000759 TLF 2425-0082
Joseph Sollis	Zoologist	MSc Biological Science (Zoology) BA Hons (Urban and Regional Planning) BSc (NRM and Urban Planning)	5	TFA-2425-0186
Jasmine Ridley	Zoologist	BSc (Environmental Science) BSc (Conservation and Wildlife Biology)	3	TFA-2425-0186

3.2.3 Flora and Vegetation Survey Design

The Stantec survey was designed in accordance with the requirements of a flora and vegetation survey to support an NVCP application. Most components of the Stantec survey were consistent with a Reconnaissance survey, except that quadrats were established as the primary floristic sampling technique.

Prior to the field work for the Stantec survey, aerial photography and detailed vegetation mapping within and adjacent to the Survey Area was reviewed, in addition to background information sources (**Section 2**). Indicative quadrat and relevé locations were selected based on the potential range of landforms and vegetation types within the Survey Area, and distributed across the portions of the Survey Area where access was permitted (access limitations are discussed further in **Table 5-1**).

3.2.4 Floristic Sampling Techniques

The Stantec survey was undertaken in accordance with the requirements of necessary statutory legislation and policy, relevant regulatory guidelines, and RTIO policies and procedures. Floristic sample sites consisted of quadrats and relevés, defined as:

- Quadrats: Bounded sampling sites established by measuring a square of 50 m x 50 m and permanently marked with galvanised steel fence droppers at the northwest and southeast corners. In some instances, quadrat dimensions were adjusted (i.e. 100 m x 25 m) to account for landform features such as drainage lines, while maintaining the standard area of 2,500 m². The attributes recorded within each quadrat were collected in accordance with Rio Tinto Data Standards (2025b). Additional data was recorded for significant flora (abundance, life stage and phenology) and for weeds (abundance).
- Relevés: Unbounded sampling sites of similar total area to quadrats (2,500 m²) and not permanently marked. The attributes recorded followed the format applied for sampling quadrats. Relevés were typically sampled to provide supplementary data to assist in vegetation type descriptions and delineations, or when the terrain prevented safe and thorough traversing.

The data collected at quadrats and relevés is summarised in **Table 3-5**.

Table 3-5: Summary of data recorded from each quadrat and relevé.

Parameters	Description
Site ID	The unique name that was assigned to the site that was sampled
Coordinates	Measured using a handheld GPS-enabled device from the northwest corner of the site, in GDA94 format
Quadrat dimensions	Dimensions of the quadrat in metres
Recorder and Date	The recorder(s) involved in sampling the site and date
Site photograph	At least one landscape photograph from the northwest corner facing southeast
Habitat type	A description of the landform type, slope and aspect
Geology type	A description of the outcropping geology (if present) and coarse fragments
Soil description	A description of the soil colour and types based on the guide in the Australian Soil and Land Survey Field Handbook (The National Committee on Soil and Terrain 2009)
Surface water presence	Presence of surface water (Yes or no), with relevant notes, if applicable
Disturbances	A list of any disturbances in the quadrat and surrounding, if present
Time since fire	An estimation of the time since the vegetation was last burnt in categories of 0-2, 2-5, 5-10, 10+ years, and no evidence.
Vascular flora species	A record of each flora species present
Height	The average height of each species in metres
Percent foliar cover (PFC)	An estimate of the PFC for each species recorded
Specimen ID	Unique identifier code assigned to any species that cannot be identified in the field

Parameters	Description
Vegetation structure	A description of the vegetation in accordance with Aplin (1979) adaptation of the vegetation classification system of Specht (1970) and the National Vegetation Information System (NVIS), Level 5 – Association (ESCAVI 2003) (**Appendix D**)
Vegetation condition	Assessed according to the Trudgen (1988) 6-point condition scale, as presented in Rio Tinto Data Standards (2025b) and EPA (2016a) (**Appendix D**)

The Survey Area was accessed via helicopter and traversed on foot. A total of 118 quadrats and 28 relevés were established by Stantec and sampled within the Survey Area to compile a representative species list and to characterise the vegetation types. The locations of all quadrats, relevés and survey tracklogs are presented in **Figure 3-3**.

3.2.5 Opportunistic and Targeted Flora Searches

Searches for significant flora and opportunistic collections (including weed species) were conducted within the Survey Area, as time permitted. Data was collected for significant (threatened and priority) flora and weed species while traversing between quadrats in suitable habitat and while conducting vegetation mapping. The attributes recorded at each significant flora or opportunistic collection location are presented in **Table 3-6,** in accordance with Rio Tinto Data Standards (2025c). Threatened and Priority Flora Report Forms for significant flora were provided to DBCA as required under the conditions of flora collecting licenses.

Representative data was recorded where the abundance of certain weeds (such as **Cenchrus ciliaris* (Buffel Grass) or **Cenchrus setiger* (Birdwood Grass)) made it impractical to record every individual or population, and in these instances, they were only indicatively mapped. Introduced flora recorded within the Survey Area were compared to the Declared pests listed under Section 22 of the *Biosecurity and Agriculture Management Act 2007* (BAM Act) and the Weed of National Significance (WoNS) list identified by the Commonwealth Government.

Unstructured opportunistic sampling was also undertaken during the Stantec survey, where possible, to supplement the suite of flora recorded from quadrats and relevés. For each opportunistic, significant flora and introduced flora record, attributes were assessed within a 20 m radial circumference from the recorded location, in accordance with Rio Tinto Data Standards (2025b).

Table 3-6: Summary of data recorded for significant flora and introduced flora.

Parameters	Description
Coordinates	Recorded using a handheld GPS-enabled device in GDA94 format
Recorder and Date	The recorder(s) involved in sampling the site and date
Vascular flora species	A record of each flora species present
Specimen ID	Unique identifier code assigned to any species that cannot be identified in the field
Abundance	The number of individuals of the taxa represented by the record within a 20 m radial circumference, or a mapped polygon (for large populations)
Height	Recorded in metres
Life stage	Whether the species is a seedling, juvenile, mature or senescing
Reproductive characteristics	Whether the species is fruiting, flowering, vegetative
Health	Qualitative assessments as either: healthy, moderate, poor, or senescent
Vegetation condition	A description of the vegetation in accordance with Aplin (1979) adaptation of the vegetation classification system of Specht (1970) and the National Vegetation Information System (NVIS), Level 5 – Association (ESCAVI 2003) (**Appendix D**)
Photograph	A representative photograph of the species showing reproductive characteristics (if present) and habitat/form

3.2.6 Vegetation Type and Vegetation Condition Mapping Consolidation Approach

A significant volume of work has previously been conducted within the Survey Area (**Section 3.1.2**), with the numerous surveys differing in recency, scale, purpose and data availability. Therefore, to incorporate the applicable previous information and achieve a consistent and updated dataset, the consolidation approach specifically involved:

- where polygons were assigned the description of 'D – Disturbed' and 'CD – Completely Degraded' but were not already included in the Rio Tinto disturbance layer, these polygons were verified and merged with the Rio Tinto disturbance layer;
- merging of similar vegetation type descriptions;
- ensuring the scale of mapping was consistent;
- updating species nomenclature and conservation status within the vegetation type descriptions to align respectively with the Western Australian Herbarium and, Commonwealth and State regulatory Acts; and
- ensuring vegetation condition classification was consistent with scales presented in the Trudgen (1988), EPA (2016a) and Rio Tinto Data Standards (2025b).

Where possible, the vegetation types previously described and mapped were ground-truthed in the field, and adjustments to vegetation type boundaries and descriptions were made following the Stantec survey, as necessary. Previous vegetation type mapping was relied upon for portions of the Survey Area that could not be ground-truthed during the Stantec survey.

A total of 140 sample sites from previous surveys within the Survey Area, consisting of 61 quadrats 79 relevés, were reviewed and used to inform the vegetation type descriptions of mapping polygons (**Table 3-7**).

Table 3-7: Previous surveys' sample sites located within the Survey Area and used to inform vegetation type mapping.

Author (Year)	Report Title	Sample Sites
Biota (2012f)	A Vegetation and Flora Survey of the Koodaideri Study Area	27 quadrats
		4 relevés
Biota (2012e)	Koodaideri Western Rail Corridor Vegetation and Flora Survey	1 quadrat
Biota (2013)	Addendum to Koodaideri Mining Lease Vegetation and Flora Survey	3 quadrats
		1 relevé
Eco Logical (2014a)	Koodaideri Biological Assessment	14 quadrats
Biota (2015)	Koodaideri Resource Evaluation Strategic NVCP Report	16 quadrats
		6 relevés
RTIO (2016)	Flora, Vegetation and Fauna Habitat Assessment at Koodaideri Native Vegetation Clearing Permit – Supporting Report	54 relevés
GHD (2023)	Gudai Darri Solar Site Reconnaissance and Targeted Flora, Basic and Targeted Fauna Survey	14 relevés

3.2.7 Vegetation Type Mapping

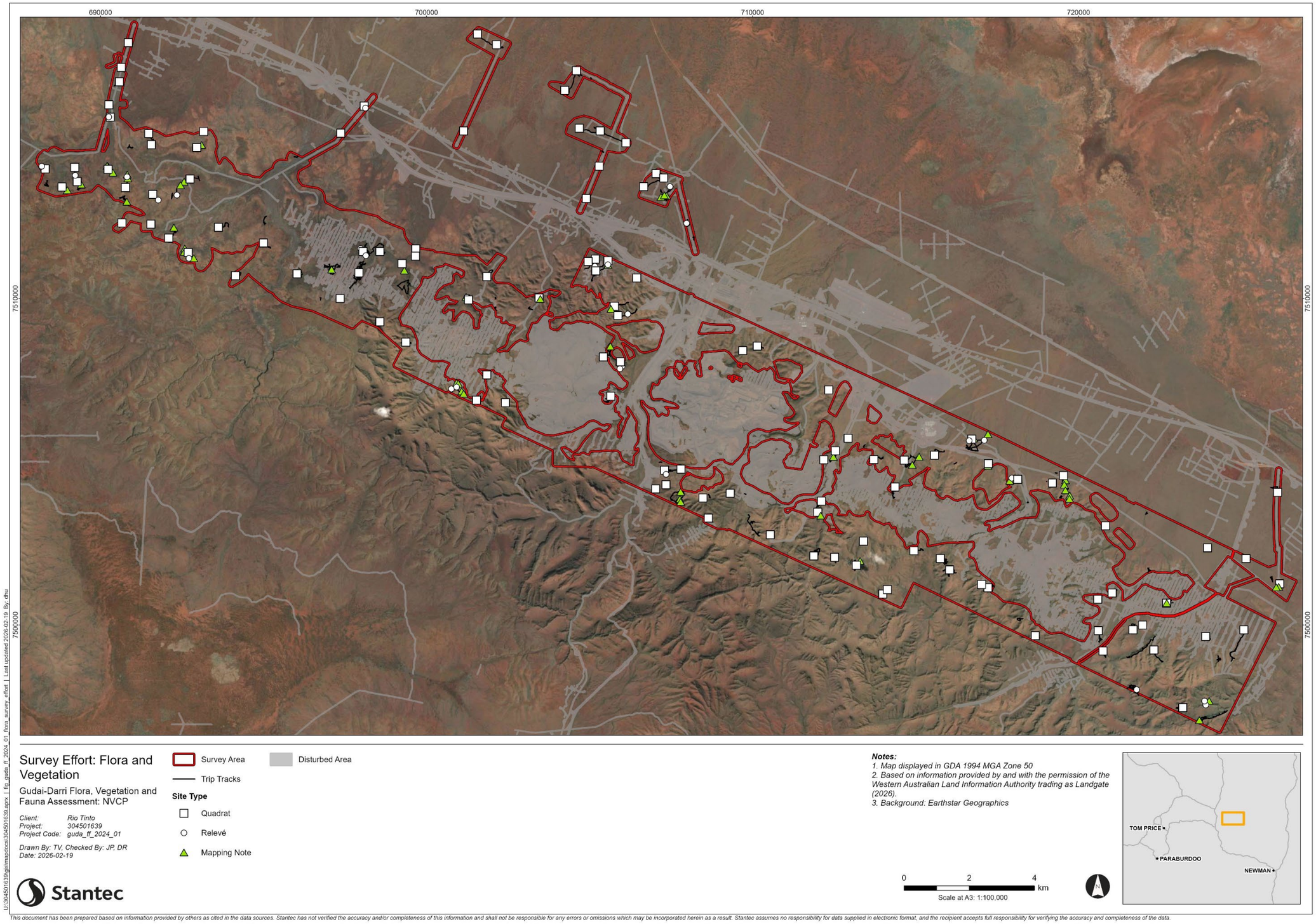
Vegetation types were described and mapped primarily using the data collected from quadrats, relevés and in-field observations made during the Stantec survey. However, due to access being prevented to over 18% of the Survey Area, some vegetation types were described using previous survey quadrats and relevés only. Mapping notes (brief annotations of dominant species, stratum, and other habitat attributes) and markups of previous or desktop mapping were recorded while traversing the Survey Area.

Vegetation types were described based on their structure and dominant species composition, consistent with NVIS Level V – Association, whereby up to three dominant species from the upper, mid and ground strata are categorised based on dominant growth form, percent foliar cover and height (**Appendix D**). Given the Stantec survey was aligned with a Reconnaissance survey, the vegetation type mapping was not supported by floristic analysis. For portions of the Survey Area that were not traversed, vegetation type and vegetation condition mapping polygons were informed by previous data, extrapolated from nearby information and/or based on interpretation of aerial imagery and geospatial layers.

Each vegetation type was given an alphabetical code representing the dominant flora species from the tallest to lowest stratum. Species names were typically abbreviated to capital letter(s) for the genus, followed by lower case letter(s) for species and sub-species, with multiple letters used where necessary to differentiate taxa with similar abbreviations. Vegetation codes with taxa listed in parentheses refer to sub-dominant taxa and the +/- symbol was used to abbreviate "with or without" for instances where there was heterogeneity in the vegetation type. Each vegetation type described within the Survey Area was compared against any known TECs and/or PECs with the potential to occur within the Survey Area.

3.2.8 Vegetation Condition Mapping

Vegetation condition was mapped according to vegetation type boundaries throughout the Survey Area, using a combination of quadrat data, opportunistic observations and the mean condition rating for each vegetation type. Where available, previous vegetation condition mapping data was also examined. Vegetation condition was rated at each sample site using the Trudgen (1988) scale as referenced in EPA (2016a) and Rio Tinto Data Standards (2025b) (**Appendix D**) and typically applied to the whole polygon in which the site was located. A mean condition rating was calculated for each vegetation type using the data collected from survey sites and this was applied to any polygons not already assigned a rating, while cleared vegetation was mapped as Completely Degraded. The most current Rio Tinto disturbance layer (provided to Stantec in August 2025) was used to delineate cleared vegetation which included roads, tracks, mining operations and other infrastructure.



This document has been prepared based on information provided by others as cited in the data sources. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

Figure 3-3: Flora and vegetation survey effort (Stantec survey) within the Survey Area.

3.3 Specimen Identification and Nomenclature

3.3.1 Flora Taxonomy

Flora that could not be fully identified in the field were collected and specimens were pressed for identification by Sharnya Yates (Principal Taxonomist), who is highly experienced with the flora of the Eremaean Botanical Province. Additionally, Rachel Butler (Poaceae Specialist) completed a review of a selection of *Triodia* specimens from the soft *Triodia* group. The identities of significant flora were also confirmed by Steven Dillon, the Rio Tinto sponsored taxonomist at the Western Australian Herbarium (WAH).

The nomenclature of flora recorded during the Stantec survey was assigned according to the current listing of scientific names recognised by the WAH. Where a specimen had inadequate diagnostic material to allow for a confident identification, a 'sp.' epithet was assigned, indicating that identification could not be confirmed beyond family or genus level. Where a question mark precedes a taxon name, this denotes uncertainty in the identification, typically due to a lack of diagnostic characteristics available.

In order to compile a consolidated species list from relevant previous surveys within the Survey Area, nomenclature and significance rankings were updated as necessary in accordance with Florabase (WAH 2025). For some entities, previous survey data presented the flora nomenclature without an infraspecific rank such as 'subsp.' or 'var.'. These records were adjusted when there was sufficient confidence to assign the correct infraspecific rank. Additionally, previous survey data included a variety of annotations for the purpose of presenting indeterminate flora records. This range of annotations were standardised using either the question mark or the 'sp.' epithet, to align with the presentation of flora records from the Stantec survey.

Notoleptopus decaisnei is represented by two varieties on Florabase (WAH 2025), however, this taxon has been presented without an infraspecific rank in this report, following the recommendations of Steven Dillon and Sharnya Yates. Steven Dillon has thoroughly investigated *Notoleptopus* specimens at the WAH, and notes "the difference in leaf shape appears to be related to age and there are numerous specimens with both orbicular and cuneate leaves. It is likely *Notoleptopus decaisnei* var. Orbicularis (A.B. Craig 428) was originally described from a specimen taken from a young plant (S. Dillon pers comm, 9 July 2025). Therefore, the binomial of *Notoleptopus decaisnei* was counted as a confirmed taxon for the purpose of summarising the floristic composition for the Survey Area.

3.4 Flora Range Extension Analysis

The extension of the known range of distribution for species recorded during the Stantec survey was divided into two categories within this report, according to the criteria below as outlined by the Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment (EPA 2016a).

- Category A (bioregional range extension): Applied when a species recorded within the Survey Area has not previously been recorded within the IBRA bioregion, and;
- Category B (outlier): Applied when a record represents an isolated outlier of the main range of the species' known distribution.

To determine if a species is a Category A range extension, all confirmed species recorded during the Stantec survey were assessed in comparison to the locations of vouchered records presented on Florabase (WAH 2025).To determine if a species is a Category B outlier, species were evaluated in relation to their known Extent of Occupancy (EOO). The EOO is delineated by a boundary that defines the area where a species is distributed, based on confirmed records (i.e., a polygon drawn around the outermost known points of the species' distribution). If a species recorded within the Survey Area is located beyond the EOO boundary, it is considered an outlier, indicating a significant extension beyond its usual distribution. Furthermore, a supplementary assessment was conducted to assess whether a species has been previously recorded within an IBRA subregion, as per vouchered records presented on Florabase.

4. Results and Discussion

4.1 Desktop Assessment

4.1.1 Significant Flora

The desktop assessment identified 74 significant flora as occurring within 100 km of the Survey Area. Of these, one significant flora taxon listed under State legislation has been previously recorded within the Survey Area; *Synostemon hamersleyensis* (T: En) (**Table 4-1**, **Figure 4-1**). Five other significant flora currently listed on DBCA's Priority Flora List have been recorded within the Survey Area, comprising, two Priority 3 and five Priority 4 taxa. Where possible, the data presented excludes duplicates between the DBCA databases (TPFL and WAH Specimen Database) and the Rio Tinto Significant Flora Database. Furthermore, records from the Rio Tinto Significant Flora Database have been filtered to avoid inclusions of previous records of significant flora that have since been cleared.

One record, *Solanum* ?sp. Red Hill (S. van Leeuwen et al. PBS 5415), listed in the Rio Tinto Significant Flora Database, was previously recorded within the Survey Area and may represent the Priority 3 taxon, *Solanum* sp. Red Hill (S. van Leeuwen et al. PBS 5415) (RTIO 2025a). However, this record remains unresolved, likely due to insufficient diagnostic material available to enable a conclusive taxonomic identification. Therefore, *Solanum* ?sp. Red Hill (S. van Leeuwen et al. PBS 5415) is presented as 'flora of other significance' for the purposes of this report and discussed further in **Section 4.2.1.4**. A second record, also with an unresolved identification, is located approximately 1.7 km south of the Survey Area.

4.1.2 Pre-survey Likelihood of Occurrence Assessment

In addition to the significant flora previously recorded within the Survey Area, based on the proximity of known populations to the Survey Area, the life form, and preferred habitat, 10 significant flora were considered likely to occur in the Survey Area:

- *Calotis squamigera* (P1);
- *Hibiscus* sp. Mulga Downs (S. Hitchcock SH 638) (P1);
- *Rorippa* sp. Fortescue Valley (M.N. Lyons & R.A. Coppen FV 0760) (P1);
- *Dicladanthera glabra* (P3);
- *Eremophila pusilliflora* (P3);
- *Dampiera metallorum* (P3);
- *Eremophila spongiocarpa* (P3);
- *Gymnanthera cunninghamii* (P3);
- *Isotropis parviflora* (P3); and
- *Themeda* sp. Hamersley Station (M.E. Trudgen 11431) (P3).

The remaining significant flora were considered possible and/or unlikely to occur within the Survey Area as detailed in **Appendix E**.

Table 4-1: Significant flora identified from the desktop assessment as occuring within the Survey Area.

Significant Flora	DBCA		Rio Tinto	
	Number of Records	Estimated Abundance	Number of Records	Estimated Abundance
Synostemon hamersleyensis (T)	8	3,000	4,591	4,602
Eremophila naaykensii (P3)	-	-	1	100
Rostellularia adscendens var. *latifolia* (P3)	-	-	1	1
Acacia bromilowiana (P4)	-	-	2	5
Eremophila magnifica subsp. *magnifica* (P4)	1	1	5	24
Rhynchosia bungarensis (P4)	2	2	368	2,527

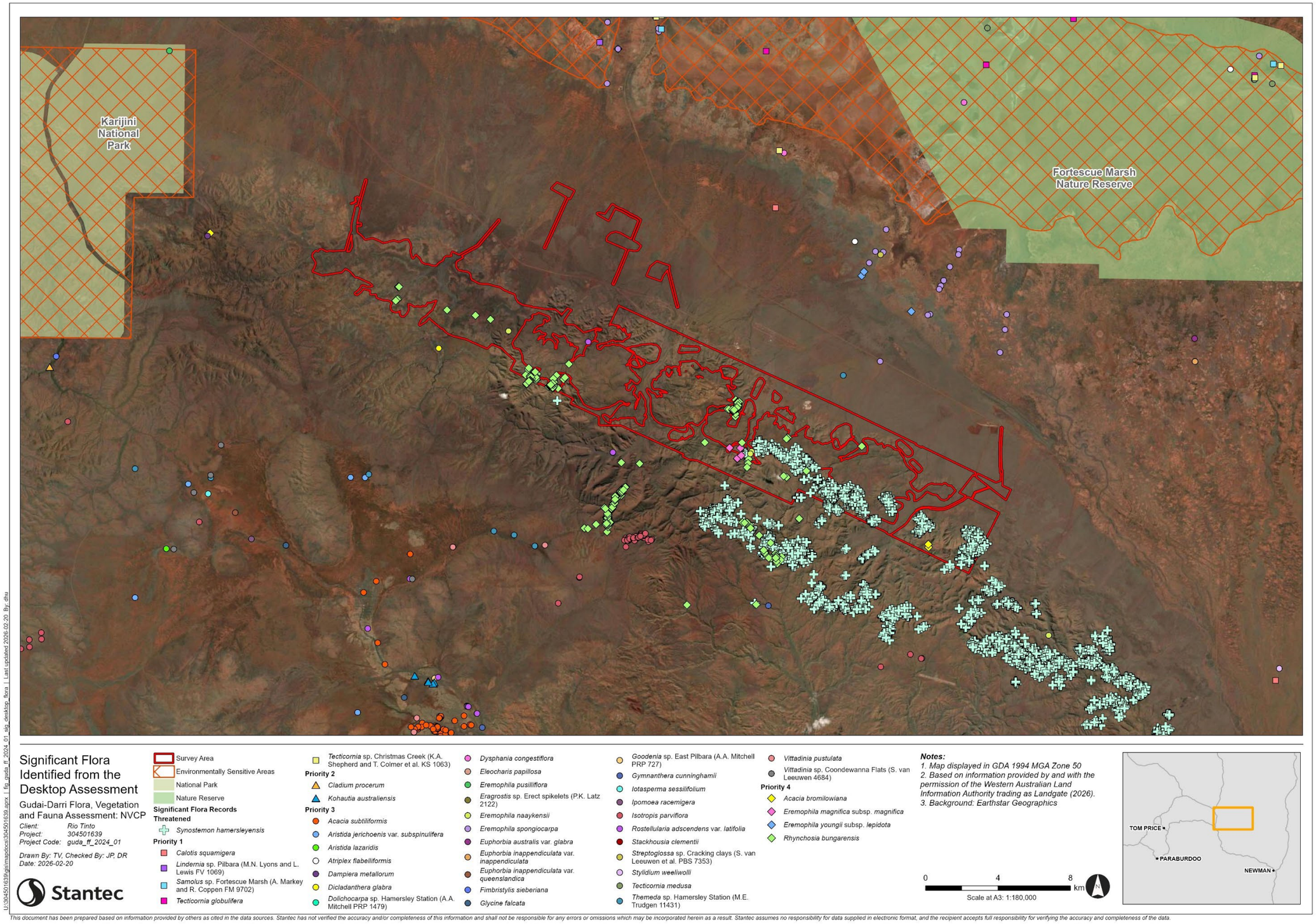


Figure 4-1: Significant flora identified from the desktop assessment.

4.1.3 Introduced Flora

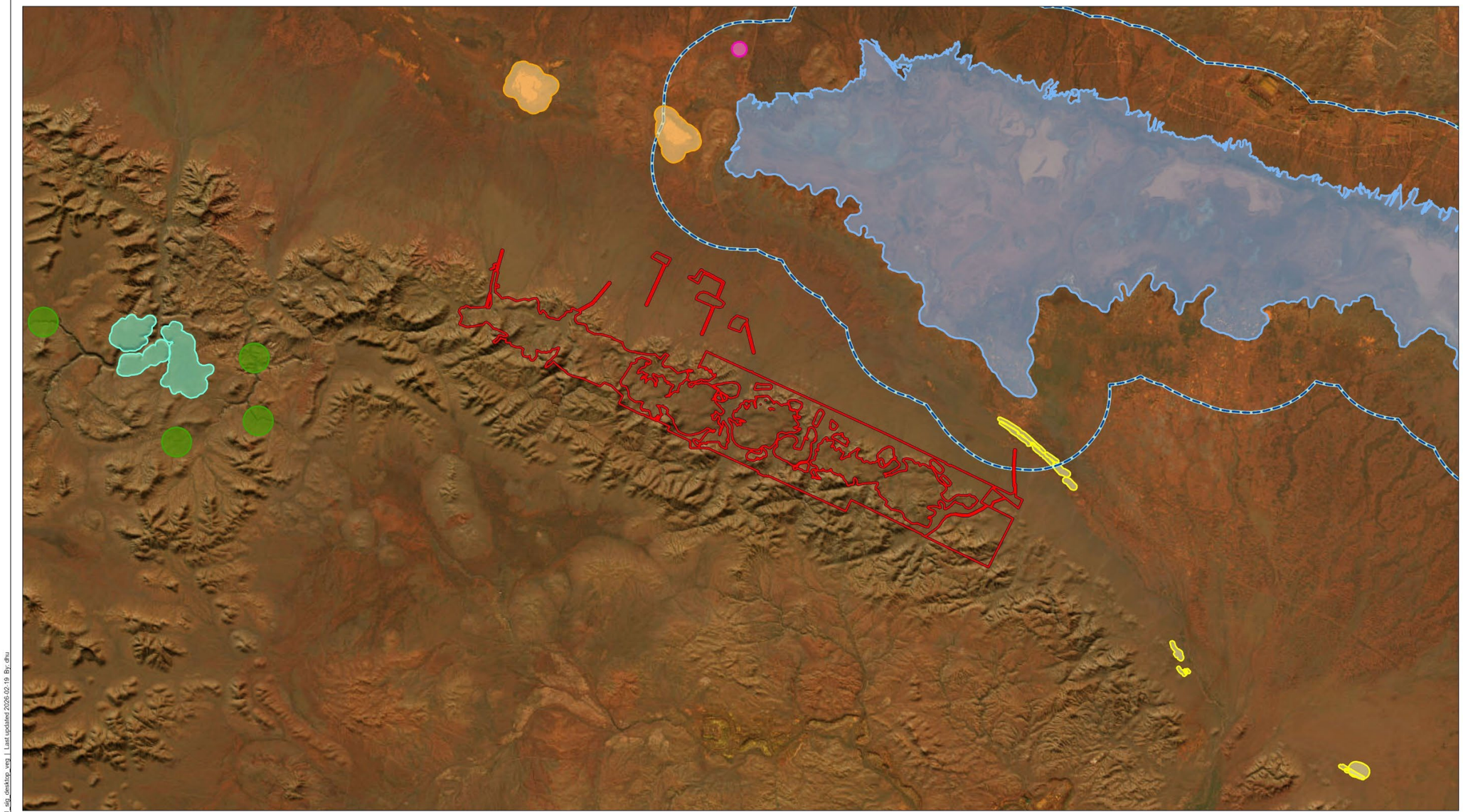
Thirteen introduced flora (weeds) have previously been recorded within the Survey Area, none of which represent a WoNS or Declared Pest. The previously recorded weeds and the DPaW (2013; 2014) assessment of their ecological impact and invasiveness are listed in **Table 4-2**.

Table 4-2: Introduced flora previously recorded within the Survey Area. Where possible, the data collated excludes duplicate recordings as a result of re-sampled quadrats.

Weed Species (Common Name)	Number of Records	Estimated Abundance	Ecological Impact (DPaW 2013; 2014)	Invasiveness (DPaW 2013; 2014)
**Aerva javanica* (Kapok Bush)	106	1,233	High	Rapid
**Bidens bipinnata* (Bipinnate Beggartick)	58	4,761	Unknown	Rapid
**Cenchrus ciliaris* (Buffel Grass)	520	31,279	High	Rapid
**Cenchrus setiger* (Birdwood Grass)	7	15,017	High	Rapid
**Erigeron bonariensis* (Flax-Leaf Fleabane)	2	130	Not assessed	Not assessed
**Flaveria trinervia* (Speedy Weed)	3	32	Not assessed	Not assessed
**Lactuca saligna* (Wild Lettuce)	6	26	Not assessed	Not assessed
**Lactuca serriola* forma *serriola* (Prickly Lettuce)	26	617	Not assessed	Not assessed
**Malvastrum americanum* (Spiked Malvastrum)	17	311	High	Rapid
**Rumex vesicarius* (Ruby Dock)	5	12	Not assessed	Not assessed
**Setaria verticillata* (Whorled Pigeon Grass)	46	936	High	Rapid
**Sonchus oleraceus* (Common Sowthistle)	2	55	Low	Rapid
**Tribulus terrestris* (Caltrop)	1	20	Unknown	Moderate

4.1.4 Threatened Ecological Communities and Priority Ecological Communities

The TEC and PEC database search indicates that no significant communities have been recorded within the Survey Area (DBCA 2024e). The 'Vegetation of sand dunes of the Hamersley Range/Fortescue Valley' Priority 3 PEC is the nearest PEC to the Survey Area, located approximately 850 m from the Survey Area at its closest delineation (**Figure 4-2**). The 'Fortescue Marsh (Martuyitha)' Priority 1 PEC is located approximately 4 km north of the Survey Area, and the buffer of this PEC overlaps with a small portion of the Survey Area (**Figure 4-2**). Mapped representations of the Freshwater Claypans of the Fortescue Valley (Priority 1) and the Riparian flora and plant communities of springs and river pools with high water permanence of the Pilbara Region (Priority 2) PECs are also mapped in the local region (**Figure 4-2**). The nearest delineation of the Freshwater Claypans of the Fortescue Valley PEC is located approximately 7 km north of the Survey Area, and the Riparian flora and plant communities of springs and river pools with high water permanence of the Pilbara Region PEC is located approximately 14 km west of the Survey Area (DBCA 2024e).



This document has been prepared based on information provided by others as cited in the data sources. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

Figure 4-2: Significant vegetation identified from the desktop assessment.

4.2 Field Survey

4.2.1 Flora

4.2.1.1 Floristic Composition

A total of 381 confirmed vascular flora (including species, subspecies, varieties, forms, hybrids, parasitic species, native and introduced species) from 49 families and 146 genera have been recorded within the Survey Area, of which 256 were recorded during the Stantec survey. In addition to the 381 confirmed taxa, the overall species list includes 129 informal or unresolved nomenclature representing indeterminate flora records, for which confident application of species, subspecies or variety rank was not possible. Within the 381 confirmed taxa, the most represented family was Fabaceae and the most diverse genera was *Acacia* (**Table 4-3**), which is considered typical for flora and vegetation surveys in the PIL02 and PIL03 subregions.

The majority of the unresolved flora records from the Stantec survey were due to an absence of diagnostic characters being available in the field and in collected specimens. Several of the unresolved flora records from previous surveys represent taxa listed in previous survey data which were not presented as complete nomenclature (for example, not including an infraspecific rank such as subsp. or var.). None of the 129 unresolved records are likely to be threatened or priority flora, and many are likely to be represented within the list of 381 confirmed vascular flora.

A complete species list for the Stantec survey is provided in **Appendix F**, which also presents a consolidated species list including significant flora data held within the Rio Tinto database, and data from quadrats and relevés sampled during previous surveys within the Survey Area. A site by species matrix presenting the data collected at the 118 quadrats and 28 relevés sampled during the Stantec survey is provided in **Appendix G** and comprehensive datasets for the sites are compiled within **Appendix H**.

Table 4-3: Most represented families and genera within the Survey Area.

Family	Number of Confirmed Taxa
Fabaceae	77
Poaceae	54
Malvaceae	52
Genera	**Number of Confirmed Taxa**
Acacia	38
Senna	15
Sida	14

4.2.1.2 Significant Flora

Six significant flora have been recorded within the Survey Area, inclusive of records from previous surveys and DBCA databases (**Table 4-4**). These significant flora represent one threatened species, two P3 species and three P4 species. *Synostemon hamersleyensis* (T: En) is listed under the BC Act in WA, however it is not currently listed under the EPBC Act. New populations of four of these six significant flora were recorded during the Stantec survey (**Table 4-4**). The distribution of significant flora within the Survey Area, including previously recorded data, is presented in **Figure 4-3** and within detailed figures displaying vegetation type mapping. Photographs and descriptions of the significant flora recorded during the Stantec survey are presented in **Appendix I**. Previous survey data also includes one unresolved record of *Solanum* ?sp. Red Hill (S. van Leeuwen et al. PBS 5415), as discussed in **Section 4.1.1** and **Section 4.2.1.4**.

Table 4-4: Significant flora recorded within the Survey Area, beyond the Survey Area (Rio Tinto database) and vouchered records (WAH 2025).

Significant Flora	Stantec survey		Rio Tinto Database		DBCA data		Rio Tinto Database		Number of Vouchered Records (WAH 2025)
	Records within the Survey Area	Estimated Abundance	Records within the Survey Area	Estimated Abundance	Records within the Survey Area	Estimated Abundance	Records Beyond the Survey Area	Estimated Abundance Beyond the Survey Area	
Synostemon hamersleyensis (T: En)	2	2	4,591	4,602	8	3,000	16,064	16,378	35
Eremophila naaykensii (P3)	-	-	1	100	-	-	2,611	36,332	22
Rostellularia adscendens var. *latifolia* (P3)	2	2	1	1	-	-	593	5,685	50
Acacia bromilowiana (P4)	-	-	2	5	-	-	488	9,856	30
Eremophila magnifica subsp. *magnifica* (P4)	3	13	5	24	1	1	921	11,549	46
Rhynchosia bungarensis (P4)	7	22	368	2,527	2	2	1,165	11,200	109

where abundances were not available within desktop assessment data, one individual was assumed.

Threatened and Priority Flora Report Forms for the significant flora recorded during the Stantec survey are presented in **Appendix J**.

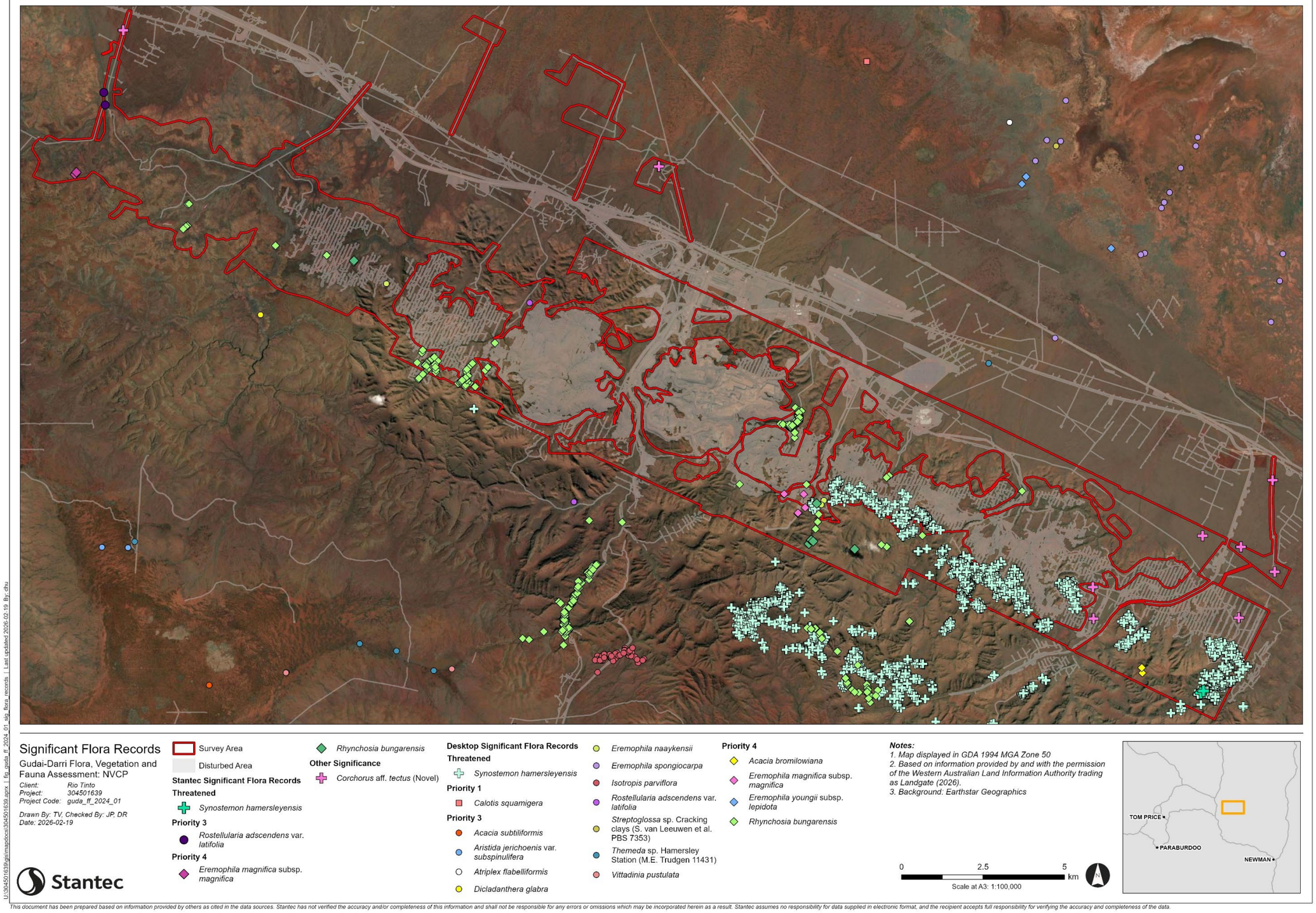


Figure 4-3: Locations of significant flora within the Survey Area.

Synostemon hamersleyensis (T: En) (**Plate 4-1**) is a small subshrub with wiry light green stems and modified leaves that are reduced to scales of less than 1 mm. This perennial species typically occurs in incised rocky gullies and ridge lines, within an elevation range of approximately 500 to 700 m above sea level (Naaykens and Telford 2015; RTIO and WAH 2015). Records displayed on Florabase (WAH 2025) indicate that *Synostemon hamersleyensis* (T: En) is restricted to an approximate 35 km section of the Hamersley Ranges, and located south of the Fortescue Marsh. There are 35 vouchered records of *Synostemon hamersleyensis* (T: En) on Florabase (WAH 2025).

Plate 4-1: *Synostemon hamersleyensis* (T: En), recorded during the Stantec survey.

4.2.1.3 Post-survey Likelihood of Occurrence

The post-survey likelihood of occurrence assessment was based on an informed understanding of the landforms, soils and habitats present within the Survey Area. Four significant flora records that were identified during the desktop assessment were considered likely to occur within the Survey Area in the post-survey assessment: *Dicladanthera glabra* (P3), *Gymnanthera cunninghamii* (P3), *Indigofera gilesii* (P3) and *Isotropis parviflora* (P3). Furthermore, 11 significant flora were classified as possible to occur within the Survey Area (**Appendix E**). The typical habitat of these significant flora is present within the Survey Area, and there are known records of the significant flora in proximity to the Survey Area.

4.2.1.4 Flora of Other Significance

The EPA (2016a) advises that flora species, subspecies, varieties, hybrids and ecotypes may be considered significant for reasons other than listing as a threatened or priority flora species, and include the following:

- a keystone role in a habitat for Threatened species, or supporting large populations representing a significant proportion of the local regional population of a species;
- relic status;
- anomalous features that indicate a potential new discovery;
- being representative of the range of a species (particularly at the extremes of range, recently discovered range extensions, or isolated outliers of the main range);
- the presence of restricted subspecies, varieties, or naturally occurring hybrids; and
- local endemism or a restricted distribution; and/or being poorly reserved.

Eleven taxa during either previous surveys or the Stantec survey are considered flora of other significance and are discussed in the following sections. These include one unresolved record from a previous survey, one potentially new taxon, two range extensions and seven hybrids (one hybrid also represents a range extension). The locations of the flora of other significance are presented in **Figure 4-4**.

Unconfirmed Priority Flora

One individual of *Solanum* ?sp. Red Hill (S. van Leeuwen et al. PBS 5415) was recorded at one location within the Survey Area in 2024, during a previous targeted flora survey, and may represent the Priority 3 taxon, *Solanum* sp. Red Hill (S. van Leeuwen et al. PBS 5415) (RTIO 2025a). A second record, also with unresolved identification, is located approximately 1.7 km south of the Survey Area (RTIO 2025a). None of the *Solanum* records collected during the Stantec survey or presented in reports included in the literature review represent *Solanum* sp. Red Hill (S. van Leeuwen et al. PBS 5415) (P3). The nearest vouchered record of *Solanum* sp. Red Hill (S. van Leeuwen et al. PBS 5415) (P3) is located east of Karijini National Park, approximately 118 km east-northeast of the Survey Area (WAH 2025).

Potentially New Taxon

Corchorus aff. *tectus* was applied to eight specimens collected during the Stantec survey, following taxonomic assessment indicating affinity to, but differed from, typical *Corchorus tectus.* These specimens appear to represent an undescribed taxon, and there are currently eight collections presented as *Corchorus* aff. *tectus* on Florabase (WAH 2025). Additionally, Florabase presents three previous records of *Corchorus* aff. *tectus* have been collected in the local region (WAH 2025).

Corchorus aff. *tectus* is a small shrub with yellow flowers and green-grey leaves with rounded or gently toothed wavy margins (**Plate 4-2**). Correspondence from Steven Dillon regarding the specimens that were reviewed included: "*Corchorus* aff. *tectus* differs from typical *Corchorus tectus* in the fruit having dendritic and stellate hairs (compared to only stellate hairs). A phrase-name has been prepared but awaiting the results of a genetic study before raising it" (S. Dillon pers comms, 27 June 2025).

Corchorus aff. *tectus* was recorded at 10 locations during the Stantec survey, however it is likely to be more widespread than current records indicate, occurring in association with loamy or stony plains that are present across the northern portions of the Survey Area. It is also likely to extend beyond the Survey Area, in association with PIL02 subregion and potentially correlates with the Fortescue Valley shrub-steppe pre-European vegetation association. During surveys for the Mindy South Iron Ore Project, *Corchorus* aff. *tectus* was recorded within the Hamersley subregion to the southeast of Gudai Darri, and noted it was locally common from the plains to the north of the Survey Area (Fortescue 2024).

Plate 4-2: *Corchorus* aff. *tectus*, recorded during the Stantec survey.

Category B Range Extensions – Stantec Survey

Templetonia hookeri was opportunistically recorded during the Stantec survey, occurring on rocky hillslopes. *Templetonia hookeri* is represented by two disjunct populations on Florabase; the most widespread grouping of records occurs over the northernmost bioregions of WA and also within the Northern Territory (WAH 2025). Furthermore, records also extend into western Queensland (CHAH 2025). There is also a population represented by 11 vouchered records within the Roebourne subregion of the Pilbara bioregion (WAH 2025). The records of *Templetonia hookeri* within the Survey Area are the first records within the Hamersley subregion and represent the most southern record of this species (**Figure 4-5**). The nearest vouchered record of *Templetonia hookeri* is approximately 109 km to the northeast of the record collected opportunistically during the Stantec survey (WAH 2025). Collectively, the total extent of occupancy of *Templetonia hookeri*, as demonstrated in **Figure 4-5**, was calculated to 178,113,902 ha.

Acacia adoxa var. *adoxa* x *spondylophylla* was recorded at four locations within the Survey Area during the Stantec survey. This hybrid is represented by two vouchered records on Florabase, one located near Newman and the other located near Nullagine, approximately 80 km southeast and 117 km northeast of the Survey Area, respectively (WAH 2025). Given the lack of vouchered records of *Acacia adoxa* var. *adoxa* x *spondylophylla*, the records within the Survey Area now enable an EOO to be formed to represent the known range of this species, as previously the two records did not allow for the creation of an EOO (**Figure 4-6**).

Naturally Occurring Hybrids

Acacia adoxa var. *adoxa* x *spondylophylla* was recorded in hillslope and hilltop habitats during the Stantec survey. Both parent species were also recorded within the Survey Area and are common throughout the Pilbara bioregion (WAH 2025) (**Figure 4-4**). *Acacia adoxa* var. *adoxa* is represented by 176 vouchered records across northern WA, while *Acacia spondylophylla* is represented by 101 vouchered records (WAH 2025). The distribution of *Acacia adoxa* var. *adoxa* extends east into the Northern Territory, while *Acacia spondylophylla* extends further east into Queensland, therefore the prevalence of this naturally occuring hybrid may be more widespread than records currently indicate (CHAH 2025).

Six hybrid taxa within the *Senna* genus have been recorded within the Survey Area. Each of these hybrids were recorded during previous surveys (**Appendix F**), while one was recorded during the Stantec survey; *Senna glutinosa* subsp. ×*luerssenii* (**Figure 4-4**).

The *Senna* genus is known for being the product of (often repeated) polyploidy, apomixis and hybridization (CSIRO 1998). *Senna glutinosa* subsp. ×*luerssenii* is common and widespread throughout WA, and is represented on Florabase by 191 vouchered records (WAH 2025). The five other *Senna* hybrids recorded during previous surveys are not listed on Florabase, these include:

- *Senna artemisioides* subsp. *helmsii* x *oligophylla;*
- *Senna artemisioides* subsp. *oligophylla* x *Senna ferraria*;
- *Senna artemisioides* subsp. *oligophylla* x subsp. *helmsii;*
- *Senna glutinosa* subsp. *glutinosa* x subsp. ×*luerssenii*; and
- *Senna glutinosa* subsp. *pruinosa* x subsp. ×*luerssenii.*

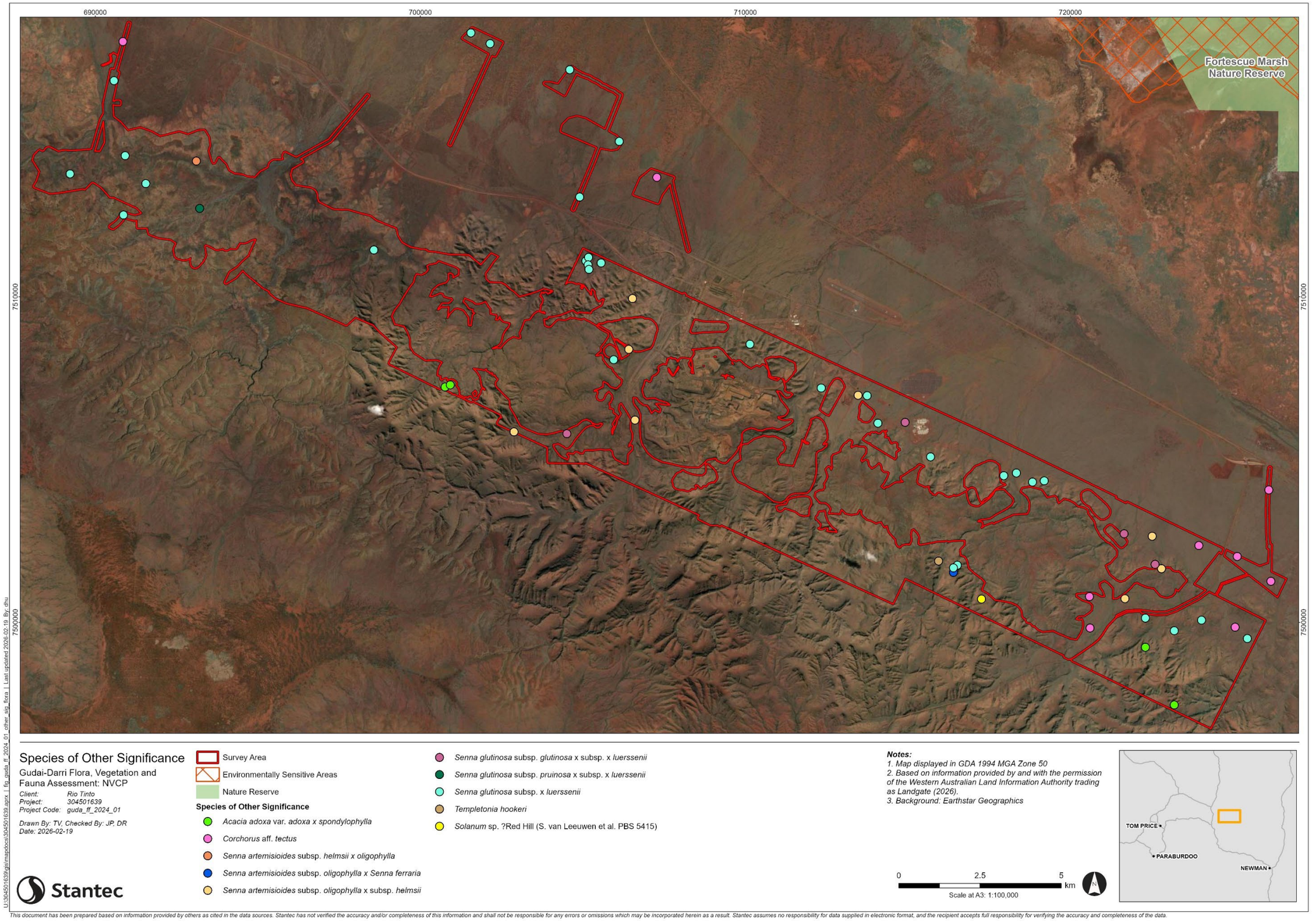


Figure 4-4: Flora of other significance within the Survey Area.

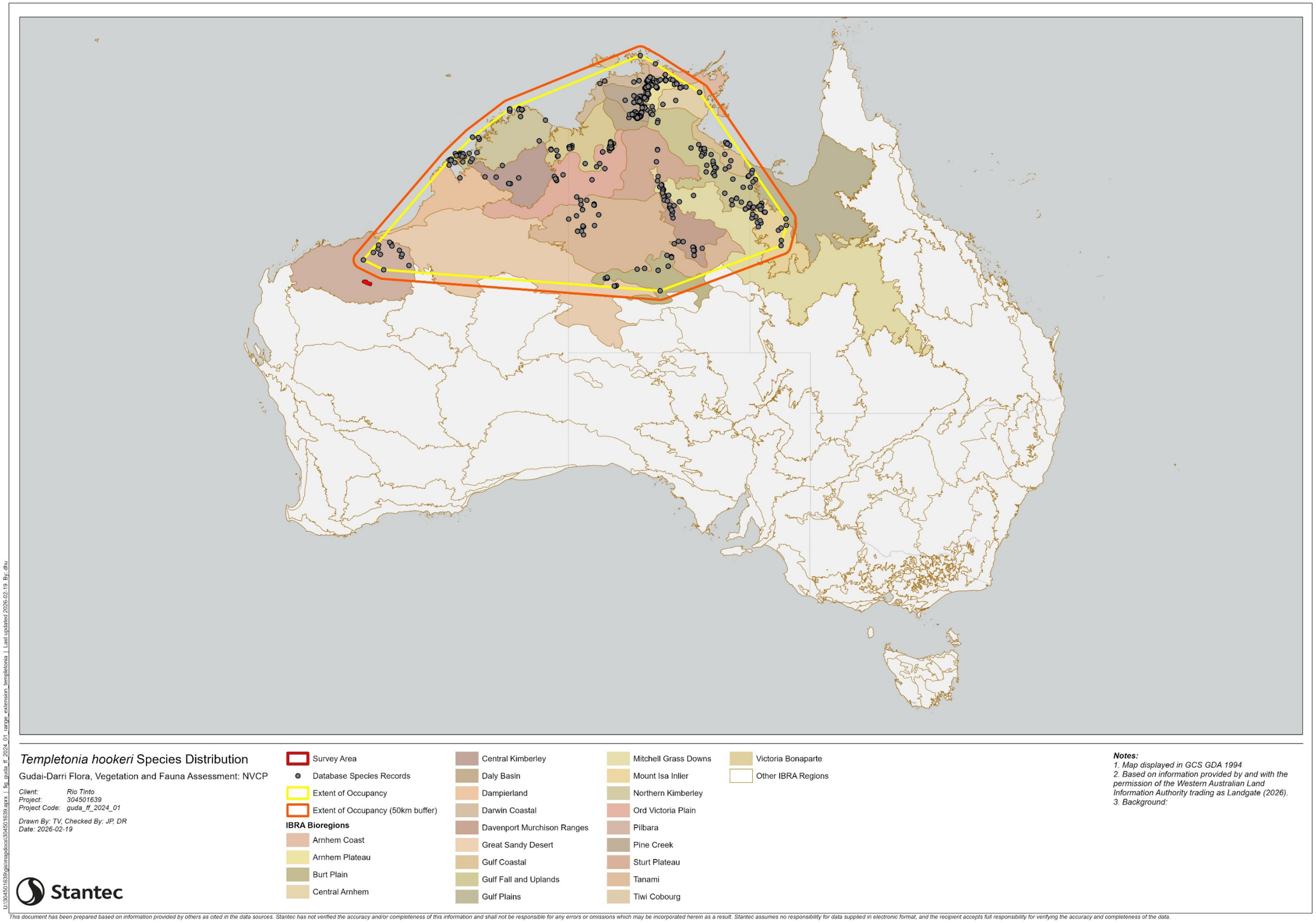


Figure 4-5: Extent of occupancy for *Templetonia hookeri*.

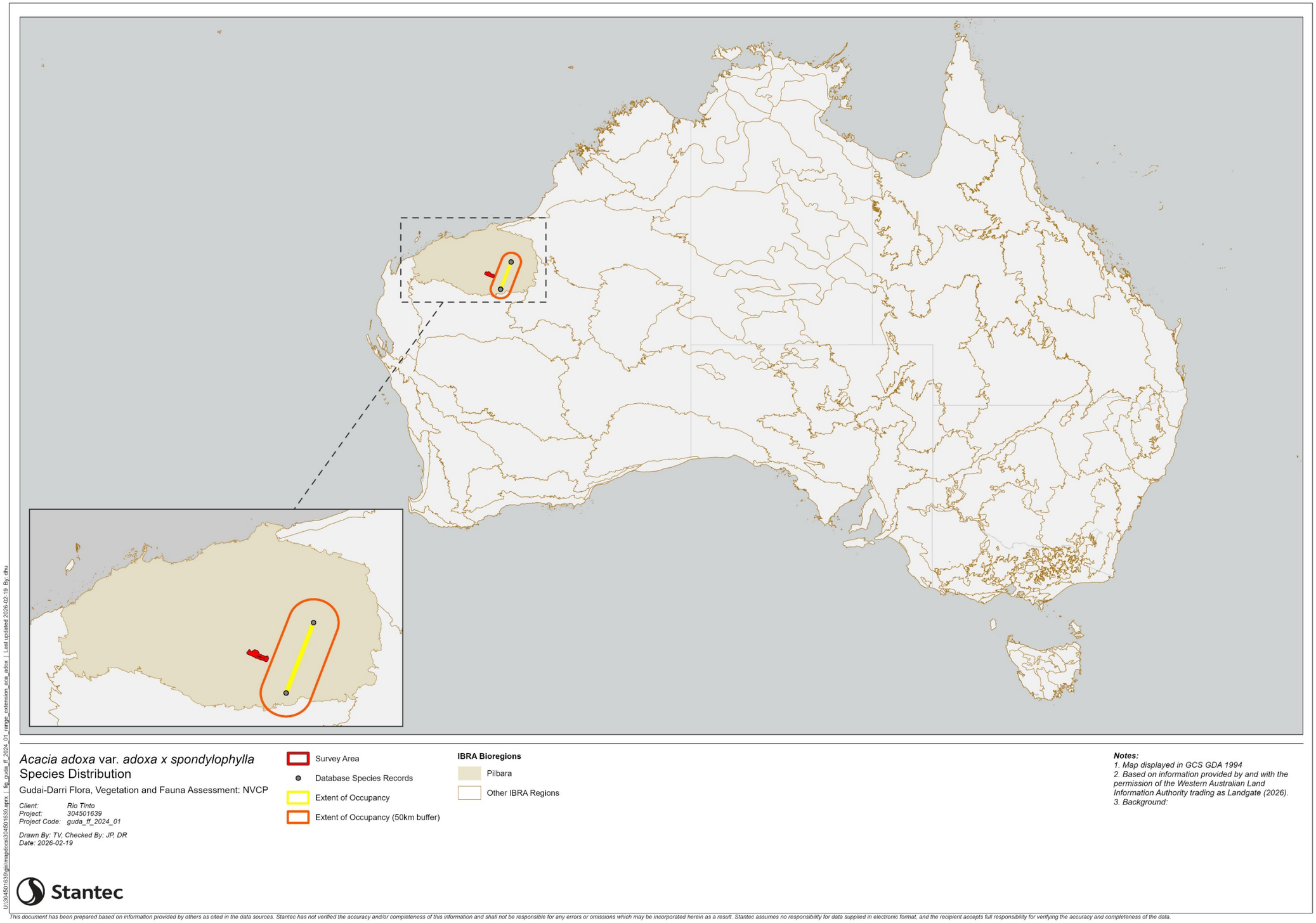


Figure 4-6: Extent of occupancy for *Acacia adoxa* var. *adoxa* x *spondylophylla*.

4.2.1.5 Introduced Flora

Following the consolidation of previous records of introduced flora (weeds), 14 weed species have been recorded within the Survey Area, none of which represent WoNS or Declared Pests (**Table 4-5**). The distribution and abundance estimates should be considered indicative, as the actual populations for several weed species within the Survey Area is likely to be higher than what could be practically documented during the surveys. The diversity of introduced flora within the Survey Area is considered typical for the Pilbara bioregion, with the majority of weed records occurring in drainage lines, or in association with disturbed vegetation or infrastructure. Photographs and descriptions of the weeds that have been recorded within the Survey Area are presented in **Appendix K**.

Six weed species were recorded during the Stantec survey, five of which have been previously recorded within the Survey Area (**Section 4.1.3**). **Euphorbia hirta* (Asthma Plant) was recorded at one location within the Survey Area, at the Gudai Darri village, and represents the only new weed species when compared to data from previous surveys. The location of the nearest vouchered specimen of **Euphorbia hirta* is approximately 186 km southwest of the Survey Area, located within an upper tributary of the Ashburton River and approximately 44 km northwest of Paraburdoo (WAH 2025). However, the distribution of this weed is likely to be more widespread than these vouchered records represent.

Table 4-5: Introduced flora recorded within the Survey Area.

Species (Common Name)	Stantec Survey		Total Following Consolidation		Ecological Impact (DPaW 2013; 2014)	Invasiveness (DPaW 2013; 2014)
	Records	Abundance	Records	Abundance		
**Aerva javanica* (Kapok Bush)	6	63	112	1,296	High	Rapid
**Bidens bipinnata* (Bipinnate Beggartick)	-	-	58	4,761	Unknown	Rapid
**Cenchrus ciliaris* (Buffel Grass)	113	83,686	633	114,965	High	Rapid
**Cenchrus setiger* (Birdwood Grass)	11	3,125	18	18,142	High	Rapid
**Erigeron bonariensis* (Flax-Leaf Fleabane)	-	-	2	130	Not assessed	Not assessed
**Euphorbia hirta* (Asthma Plant)	1	6	1	6	Low	Slow
**Flaveria trinervia* (Speedy Weed)	-	-	3	32	Not assessed	Not assessed
**Lactuca saligna* (Wild Lettuce)	-	-	6	26	Not assessed	Not assessed
**Lactuca serriola* forma *serriola* (Prickly Lettuce)	-	-	26	617	Not assessed	Not assessed
**Malvastrum americanum* (Spiked Malvastrum)	1	3	18	314	High	Rapid
**Rumex vesicarius* (Ruby Dock)	-	-	5	12	Not assessed	Not assessed
**Setaria verticillata* (Whorled Pigeon Grass)	4	48	50	984	High	Rapid
**Sonchus oleraceus* (Common Sowthistle)	-	-	2	55	Low	Rapid
**Tribulus terrestris* (Caltrop)	-	-	1	20	Unknown	Moderate

4.2.2 Vegetation

4.2.2.1 Vegetation Types

The vegetation within the Survey Area generally reflected what would be expected in comparable landforms in the PIL2 and PIL3 subregions. A total of 33 vegetation types were described and mapped within the Survey Area. Detailed descriptions and representative photographs of each vegetation type recorded during the Stantec survey are presented in **Table 4-6**. An overview of vegetation type mapping within the Survey Area is presented in **Figure 4-7** with detailed figures presented in **Appendix L**.

The 33 vegetation types were mapped in association with broad landform categories including:

- hilltops and hillslopes;
- plains;
- drainage;
- undulating plains and footslopes
- floodplains;
- high hilltops and crests;
- gorges and gullies; and
- spring.

The hilltops and hillslopes broad landform accounted for the majority of the Survey Area (7,568.06 ha, 62.44%) and also comprised the greatest number of vegetation types (12).

Approximately 1,010 ha (8.3%) of the Survey Area has been cleared of vegetation, predominantly for mining operations (including the accommodation village, roads, drill pads and access tracks). These areas were mapped as ‘Disturbed’ and was largely informed by the most recent disturbance shapefile layer supplied by Rio Tinto in August 2025.

Table 4-6: Vegetation types within the Survey Area.

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
Hilltops and Hillslopes								
H1	EllChGwAhiAspoTwTv	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia hilliana* and *Acacia spondylophylla* low open shrubland over *Triodia wiseana* and *Triodia vanleeuwenii* open hummock grassland. **Associated species:** *Acacia pruinocarpa, Acacia inaequilatera, Calytrix carinata Eriachne lanata, Eriachne pulchella* subsp. *pulchella*, *Gompholobium oreophilum*, *Goodenia stobbsiana*, *Hakea chordophylla*, *Ptilotus calostachyus*, *Ptilotus exaltatus* and *Scaevola browniana* subsp. *browniana.*	SGD001 SGD004 SGD007 SGD008 SGD012 SGD023 SGD058 SGDr21 SGDr069 SGDr-002	KOOD35 KOOD37 KOOD41 KOOD49 KRE05 KRE07 KRE33 Q38 Q40 Q46 Q56 R9 R10 R10B H415	Excellent	2,039.45	16.82%	
H8	EllGwAbTwTv	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Grevillea wickhamii* scattered tall shrubs over *Acacia bivenosa* open shrubland over *Triodia wiseana* and/or *Triodia vanleeuwenii* open hummock grassland. **Associated species:** *Acacia spondylophylla*, *Dolichocarpa crouchiana*, *Eriachne pulchella* subsp. *pulchella*, *Grevillea wickhamii* ?subsp., *Ptilotus calostachyus*, *Senna glutinosa* subsp. *glutinosa* and *Tribulus suberosus*.	SGD010 SGD049 SGD089 SGD100 SGDr062 SGDr068 SGDr073	KRE01 KRE08 KRE10 KOD11 KOD27 KOD29 KOD49 KOD56 KOD61	Very Good to Excellent	1,535.39	12.67%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
H6	EllGwAaridAspoMvTvTw	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Grevillea wickhamii* ?subsp. scattered shrubs over *Acacia arida, Acacia spondylophylla* and *Mirbelia viminalis* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland. **Associated species:** *Acacia maitlandii*, *Acacia pruinocarpa*, *Corymbia hamersleyana*, *Dampiera candicans*, *Eriachne lanata*, *Hakea chordophylla*, *Ptilotus calostachyus*, *Ptilotus fusiformis* and *Ptilotus* sp.	SGD057 SGD062 SGD070 SGD083	KOOD05 KOD31 J788 H420 H424 H384 R58	Excellent	809.67	6.68%	
H10	EllHcAmaiAprAbTv	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Hakea chordophylla* scattered tall shrubs over *Acacia maitlandii* and/or *Acacia pruinocarpa* and/or *Acacia bivenosa* scattered shrubs over *Triodia vanleeuwenii* open hummock grassland. **Associated species:** *Acacia arida, Acacia inaequilatera*, *Dampiera candicans, Eucalyptus gamophylla Grevillea wickhamii* ?subsp., *Hakea chordophylla, Ptilotus calostachyus*, *Ptilotus exaltatus*, *Ptilotus* sp. and *Senna glutinosa* subsp. *glutinosa*.	SGD015 SGD037 SGD048 SGD065 SGD066 SGD081 SGD091 SGD104 SGDr-008	J792	Excellent	749.69	6.18%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
H5	EllEgGwHcAspoAhiTv	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Eucalyptus gamophylla* open mallee over *Hakea chordophylla* scattered tall shrubs over *Acacia spondylophylla* and *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* open hummock grassland. **Associated species:** *Corymbia hamersleyana*, *Dampiera candicans*, *Grevillea wickhamii* ?subsp., *Grevillea wickhamii* subsp. *hispidula*, *Ptilotus* sp., *Scaevola browniana* subsp. *browniana*, *Senna glutinosa* subsp. *glutinosa* and *Seringia exastia*.	SGD011 SGD077 SGD079 SGD096	KOD07 KOD43 KRE06 KRE11 KRE34	Excellent	508.42	4.19%	
H3	EllChGwAspoTw	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Acacia spondylophylla* scattered low shrubs over *Triodia wiseana* open hummock grassland. **Associated species:** *Acacia pruinocarpa*, *Eriachne pulchella* subsp. *pulchella*, *Hakea chordophylla*, *Mirbelia viminalis*, *Ptilotus exaltatus* and *Ptilotus* sp., *Senna glutinosa* subsp. *glutinosa*	SGD003 SGD013 SGD016 SGD021 SGD024 SGD073 SGDr060 SGDr071 SGDr072	KOOD17 Q28 Q32 J781 H387	Excellent	489.54	4.04%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
H9	EllTeTp	*Eucalyptus leucophloia subsp. leucophloia low open woodland over Triodia epactia and/or Triodia pungens open hummock grassland.* **Associated species:** *Acacia bivenosa*, *Acacia tenuissima*, *Dolichocarpa crouchiana*, *Eriachne mucronata*, *Goodenia cusackiana Grevillea wickhamii* ?subsp., *Ptilotus obovatus* var. *obovatus, Senna artemisioides* subsp. *helmsii* and *Solanum ?phlomoides*.	SGD020 SGD051 SGD064	H433 H438 H439 GD03 GD11 GD27 KRE32 KRE-RCAD R22	Excellent	439.32	3.62%	
H7	EllSgpSggGwTbriz	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Senna glutinosa* subsp. *pruinosa* and *Senna glutinosa* subsp. *glutinosa* and *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Triodia brizoides* open hummock grassland. **Associated species:** *Acacia bivenosa*, *Acacia inaequilatera*, *Arivela viscosa*, *Dolichocarpa crouchiana*, *Eriachne aristidea*, *Euphorbia careyi*, *Goodenia* sp., *Ptilotus calostachyus*, *Ptilotus exaltatus*, *Ptilotus obovatus* var. *obovatus*, *Tribulus suberosus* and *Trigastrotheca molluginea*.	SGD076 SGD086 SGDr066	R23 R37 R48 R49	Excellent	395.36	3.26%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
H4	EllGwAspoAhiTv	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia spondylophylla* and *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* open hummock grassland. **Associated species:** *Acacia adoxa* var. *adoxa*, *Acacia maitlandii*, *Acacia pyrifolia* var. *pyrifolia*, *Aristida* ?*holathera* var. *holathera*, *Dampiera candicans*, *Eriachne lanata*, *Eriachne mucronata*, *Hakea chordophylla*, *Indigofera monophylla*, *Neurachne muelleri*, *Ptilotus exaltatus*, *Ptilotus* sp., *Senna glutinosa* subsp. *glutinosa* and *Triodia pungens*.	SGD022 SGD028 SGD031 SGD054	KOOD29 KOD63 KRE31 H404 H417 H422 H423 H440 R43 R44	Very Good to Excellent	298.54	2.46%	
H2	EllEgAhiTvTw	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Eucalyptus gamophylla* low open mallee over *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland. **Associated species:** *Acacia adoxa* var. *adoxa*, *Acacia maitlandii*, *Eriachne mucronata*, *Grevillea wickhamii* ?subsp., *Hakea chordophylla*, *Indigofera monophylla*, *Mirbelia viminalis*, *Petalostylis labicheoides*, *Ptilotus exaltatus*, *Ptilotus* sp. and *Scaevola browniana* subsp. *browniana*.	SGD030 SGD060 SGD063 SGD075 SGD078 SGDr-001	H342	Excellent	210.78	1.74%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
H11	Ch/CddTvTw	*Corymbia hamersleyana* and/or *Corymbia deserticola* subsp. *deserticola* low open woodland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland. **Associated species:** *Acacia tenuissima*, *Corchorus lasiocarpus* subsp. *lasiocarpus*, *Euploca pachyphylla*, *Grevillea wickhamii* ?subsp., *Ptilotus calostachyus*, *Ptilotus exaltatus*, *Senna glutinosa* subsp. *glutinosa*, *Sida* ?sp. Articulation below (A.A. Mitchell PRP 1605), *Sida* sp. and *Solanum* ?*phlomoides*.	SGD041 SGD042 SGD122 SGDr-007 SGDr23	-	Excellent	85.17	0.70%	
H12	AaAprTwTv	*Acacia* ?*aneura* and *Acacia pruinocarpa* tall shrubland over *Triodia wiseana* and *Triodia vanleeuwenii* open hummock grassland. **Associated species:** *Cheilanthes sieberi* subsp. *sieberi*, *Eremophila ?jucunda* subsp. *pulcherrima*, *Eremophila latrobei* subsp. *filiformis*, *Grevillea wickhamii* ?subsp., *Petalostylis labicheoides*, *Senna glutinosa* subsp. *×luerssenii*, *Trigastrotheca molluginea*	SGDr070	-	Excellent	6.73	0.06%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
Plains								
P7	EgGwTv	*Eucalyptus gamophylla* scattered mallee over *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Triodia vanleeuwenii* open hummock grassland. **Associated species:** *Acacia bivenosa*, *Acacia inaequilatera*, *Ptilotus astrolasius*, *Ptilotus calostachyus*, *Senna artemisioides* subsp. *oligophylla*, *Solanum phlomoides*.	SGD087	KOD41 R31 H406 H421	Excellent	235.29	1.94%	
P4	EgAancGwApacAppTb	*Eucalyptus gamophylla* low open mallee over *Acacia ancistrocarpa*, *Grevillea wickhamii* ?subsp. and *Acacia pachyacra* over *Acacia pyrifolia* var. *pyrifolia* open shrubland over *Triodia* ?*basedowii* open hummock grassland. **Associated species:** *Acacia atkinsiana, Afrohybanthus aurantiacus*, *Aristida* ?*holathera* var. *holathera*, *Corchorus lasiocarpus* subsp. *lasiocarpus*, *Eriachne aristidea*, *Euploca pachyphylla*, *Goodenia microptera*, *Hakea lorea* subsp. *lorea*, *Indigofera monophylla*, *Neurachne muelleri*, *Ptilotus calostachyus*, *Ptilotus exaltatus*, *Rhynchosia minima*, *Senna artemisioides* subsp. *helmsii*, *Senna artemisioides* subsp. *oligophylla*, *Senna notabilis*, *Sida* sp., *Solanum* ?*phlomoides*, *Tribulus macrocarpus*, *Trichodesma zeylanicum* var. *zeylanicum* and *Trigastrotheca molluginea*.	SGD103 SGD105 SGD113 SGDr009	H401 H408	Very Good to Excellent	220.57	1.82%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
P1	AprAaptPslDpPooTpTsp.	*Acacia pruinocarpa*, *Acacia aptaneura*, and *Psydrax latifolia* tall shrubland over *Dodonaea petiolaris, Ptilotus obovatus* var. *obovatus* low open shrubland over *Triodia pungens* and/or *Triodia* sp. scattered tussock grasses. **Associated species:** *Abutilon* sp., *Aristida* ?*holathera* var. *holathera*, *Cheilanthes sieberi* subsp. *sieberi*, *Chrysopogon fallax*, *Enneapogon polyphyllus*, *Evolvulus alsinoides* var. *villosicalyx*, *Ptilotus exaltatus* and *Salsola australis*.	SGD111 SGD115 SGD119 SGD120 SGD121	KCW19	Good to Excellent	194.15	1.60%	
P8	GwhAiTl	*Grevillea wickhamii* subsp. *hispidula* and *Acacia inaequilatera* scattered tall shrubs over *Triodia lanigera* hummock grassland. **Associated species:** *Aristida holathera* var. *holathera*, *Bonamia erecta*, *Arivela viscosa*, *Eriachne aristidea*, *Eucalyptus gamophylla*, *Gomphrena cunninghamii*, *Gossypium australe*, *Hakea chordophylla*, *Trigastrotheca molluginea*, *Ptilotus astrolasius*, *Ptilotus nobilis* subsp. *nobilis*, *Senna artemisioides* subsp. *oligophylla* x subsp. *helmsii* and *Sida arenicola*.	-	KOD22 KOD42 KOD45	Excellent	190.99	1.58%	 Photograph courtesy of Biota (2012f)

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
P2	ChEgAiTeTb	*Corymbia hamersleyana* scattered low trees over *Eucalyptus gamophylla* very open mallee over *Acacia inaequilatera* tall open shrubland over *Triodia epactia* and *Triodia ?basedowii* open hummock grassland. **Associated species:** *Acacia atkinsiana, Afrohybanthus aurantiacus*, *Aristida ?holathera* var. *holathera*, *Aristida contorta*, *Arivela viscosa*, *Bonamia erecta*, **Cenchrus ciliaris*, *Corchorus lasiocarpus* subsp. *lasiocarpus*, *Eragrostis eriopoda*, *Euphorbia tannensis* subsp. *eremophila, Goodenia microptera*, *Grevillea wickhamii* ?subsp. *Hakea lorea* subsp. *lorea, Indigofera monophylla*, *Jasminum didymum* subsp. *lineare*, *Ptilotus astrolasius*, *Ptilotus calostachyus*, *Ptilotus exaltatus*, *Ptilotus obovatus* var. *obovatus*, *Senna artemisioides* subsp. *oligophylla*, *Senna artemisioides* subsp. *helmsii, Trichodesma zeylanicum* var. *zeylanicum* and *Trigastrotheca molluginea*.	SGD017 SGD018 SGD019 SGD108 SGD124 SGDr065	GD25 R51 R54	Very good to Excellent	160.76	1.33%	
P5	GwAserAdTb	*Grevillea wickhamii* ?subsp. and *Acacia sericophylla* tall open shrubland over and *Acacia dictyophleba* scattered shrubs over *Triodia basedowii* open hummock grassland. **Associated species:** *Acacia ancistrocarpa, Acacia pruinocarpa, Acacia pachyacra, Afrohybanthus aurantiacus*, *Aristida ?holathera* var. *holathera*, *Corymbia hamersleyana*, *Goodenia microptera*, *Ptilotus exaltatus*, *Ptilotus obovatus* var. *obovatus*, *Ptilotus* sp. and *Sida fibulifera*.	SGD099 SGD106 SGD107	-	Very Good	96.78	0.80%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
P3	EgAancTb	*Eucalyptus gamophylla* scattered mallee over *Acacia ancistrocarpa* tall open shrubland over *Triodia ?basedowii* open hummock grassland. **Associated species:** *Acacia bivenosa, Acacia trachycarpa, Afrohybanthus aurantiacus*, *Bonamia erecta*, *Corymbia hamersleyana, Eremophila forrestii subsp. forrestii, Indigofera monophylla* and *Ptilotus exaltatus, Senna glutinosa subsp. glutinosa, Senna artemisioides subsp. oligophylla, Triodia pungens*.	SGD098 SGD116 SGD118	-	Very Good to Excellent	37.83	0.31%	
Drainage								
D6	GrGwAtpSlAppSaoPooCcTpTe	*Gossypium robinsonii, Grevillea wickhamii* ?subsp., *Acacia tumida* var. *pilbarensis and Santalum lanceolatum* tall shrubland over *Acacia pyrifolia* var. *pyrifolia* and *Senna artemisioides* subsp. *oligophylla* open shrubland over *Ptilotus obovatus var. obovatus* scattered low shrubs over **Cenchrus ciliaris* open tussock grassland and *Triodia epactia/pungens* very open hummock grassland. **Associated species:** *Abutilon* sp., *Afrohybanthus aurantiacus*, *Arivela viscosa*, *Atalaya hemiglauca*, *Boerhavia coccinea*, *Clerodendrum floribundum* var. *angustifolium*, *Cucumis variabilis*, *Euphorbia tannensis* subsp. *Eremophila*, *Gossypium robinsonii*, *Indigofera monophylla*, *Jasminum didymum* subsp. *lineare*, *Ptilotus exaltatus*, *Stylobasium spathulatum* and *Tephrosia densa*.	SGD043 SGD052 SGD071 SGD080 SGD082	KOD02 KOD04 KOD17 KOD59 GD05 GD06 GD07 GD08 GD09 H410 H414 H419 KAD06 KCC04	Poor to Very Good	280.29	2.31%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
D4	ChAtpGwGrTeCc	*Corymbia hamersleyana* low open woodland over *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* ?subsp. and *Gossypium robinsonii* tall shrubland over *Triodia epactia* open hummock grassland and **Cenchrus ciliaris* very open tussock grassland. **Associated species:** *Afrohybanthus aurantiacus*, *Arivela viscosa*, *Cymbopogon ambiguus*, *Duperreya commixta*, *Eriachne mucronata*, *Evolvulus alsinoides* var. *villosicalyx*, *Indigofera monophylla*, *Jasminum didymum* subsp. *lineare*, *Neurachne muelleri*, *Notoleptopus decaisnei*, *Ptilotus exaltatus*, *Ptilotus obovatus* var. *obovatus*, *Santalum lanceolatum*, *Senna artemisioides* subsp. *oligophylla*, *Tephrosia densa*, *Themeda triandra* and *Trichodesma zeylanicum* var. *zeylanicum*.	SGD047 SGD053 SGD110 SGD112 SGDr-04 SGDr064 SGDr076	KOD21 GD01 GD04 GD10 GD12 GD14 H399 H403 H407 H412 H413 R20 R30 R45 R50 R53 R8	Poor to Excellent	238.90	1.97%	
D2	ChAtpPlTp	*Corymbia hamersleyana* low open woodland over *Acacia tumida* var. *pilbarensis* and *Petalostylis labicheoides* tall shrubland over *Triodia pungens* open hummock grassland. **Associated species:** *Afrohybanthus aurantiacus*, *Corchorus lasiocarpus* ?subsp. *lasiocarpus*, *Grevillea wickhamii* ?subsp. and *Ptilotus calostachyus*.	SGD033 SGD035 SGDr075	KAD-RPSA KRE-RCAB KRE-RCAF KRE-RCAG	Good to Excellent	155.08	1.28%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
D5	AtpGwCcTp	*Acacia tumida* var. *pilbarensis* and *Grevillea wickhamii* ?subsp. tall shrubland over **Cenchrus ciliaris* open tussock grassland and *Triodia pungens Triodia epactia* very open hummock grassland. **Associated species:** *Acacia pyrifolia* var. *pyrifolia*, *Afrohybanthus aurantiacus*, *Arivela viscosa*, *Atalaya hemiglauca*, *Boerhavia coccinea*, *Cymbopogon ambiguus*, *Enneapogon caerulescens*, *Evolvulus alsinoides* var. *villosicalyx*, *Gossypium robinsonii*, *Indigofera monophylla*, *Nellica maderaspatensis*, *Ptilotus exaltatus*, *Ptilotus obovatus* var. *obovatus*, *Trichodesma zeylanicum* var. *zeylanicum* and *Trigastrotheca molluginea*.	SGD005 SGD006 SGD094 SGD101 SGD125	J791	Poor to Very Good	68.69	0.57%	
D1	EvAtpAppGrCc	*Eucalyptus victrix* low open woodland over *Acacia tumida* var. *pilbarensis*, *Acacia pyrifolia* var. *pyrifolia* and *Gossypium robinsonii* open shrubland over **Cenchrus ciliaris* tussock grassland. **Associated species:** *Atalaya hemiglauca*, *Cucumis variabilis*, *Duperreya commixta*, *Euphorbia tannensis* subsp. *eremophila*, and *Santalum lanceolatum*.	SGD072 SGD072B SGD074	KRE-RCAE KRE09	Poor to Good	61.45	0.51%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
D3	ChGwGrAmaiAmonTp	*Corymbia hamersleyana* low open woodland over *Grevillea wickhamii* subsp. *hispidula*, *Gossypium robinsonii*, *Acacia maitlandii* and *Acacia monticola* tall open shrubland over *Triodia pungens* open hummock grassland. **Associated species:** *Acacia tumida* var. *pilbarensis*, *Arivela viscosa*, *Cucumis variabilis*, *Cymbopogon ambiguus*, *Dolichocarpa crouchiana*, *Eriachne mucronata*, *Euphorbia careyi*, *Indigofera monophylla*, *Ptilotus exaltatus*, *Ptilotus fusiformis*, *Senna glutinosa* subsp. *glutinosa*, *Sida* ?sp. Articulation below (A.A. Mitchell PRP 1605), *Stylobasium spathulatum* and *Trichodesma zeylanicum* var. *zeylanicum*.	SGD055 SGD059 SGD095 SGD097 SGDr-05	R25	Good to Excellent	35.36	0.29%	
D7	ChAtpGwGrTsp.Tv	*Corymbia hamersleyana* low open woodland over *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* ?subsp. and *Gossypium robinsonii* tall open scrub over *Triodia* sp. and *Triodia vanleeuwenii* open hummock grassland. **Associated species:** *Duperreya commixta, Ehretia saligna* var. *saligna, Indigofera monophylla*, *Jasminum didymum* subsp. *lineare*, *Paspalidium tabulatum, Ptilotus calostachyus, Santalum lanceolatum, Themeda triandra*.	SGD084 SGD102 rSGD20	-	Very Good to Excellent	5.33	0.04%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
Undulating plains and footslopes								
P9	ChEgGw/AiTp	*Corymbia hamersleyana* low open woodland over *Eucalyptus gamophylla* low open mallee over *Grevillea wickhamii* ?subsp. and/or *Acacia inaequilatera* scattered tall shrubs over *Triodia pungens* open hummock grassland. **Associated species:** *Acacia sericophylla*, *Afrohybanthus aurantiacus*, *Aristida holathera* var. *holathera*, *Corchorus* sp., *Duperreya commixta*, *Euphorbia tannensis* subsp. *Eremophila*, *Euploca pachyphylla*, *Hakea lorea* subsp. *lorea*, *Jasminum didymum* subsp. *lineare*, *Petalostylis labicheoides*, *Ptilotus exaltatus*, *Senna artemisioides* subsp. *oligophylla*, *Senna glutinosa* subsp. *glutinosa* and *Trigastrotheca molluginea*.	SGD027 SGD029 SGD090	KAD08 KRE12 KOD40 KOD44 R26BB	Good to Excellent	557.83	4.60%	
P6	ChEgAiGwTvTw	*Corymbia hamersleyana* scattered low trees over *Eucalyptus gamophylla* scattered mallee over *Acacia inaequilatera* and *Grevillea wickhamii* ?subsp. tall open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* hummock grassland. **Associated species:** *Acacia tumida* var. *pilbarensis*, *Aristida holathera* var. *holathera*, *Bonamia erecta*, *Neurachne muelleri*, *Ptilotus calostachyus*, *Ptilotus exaltatus*, *Senna artemisioides* subsp. *oligophylla* and *Senna glutinosa* subsp. *glutinosa*.	SGD040 SGD044 SGD114 SGD117 SGD123 SGDr061	KOI10	Excellent	201.14	1.66%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
H14	AxEcTwTv	*Acacia xiphophylla* tall shrubland over *Eremophila cuneifolia* scattered low shrubs over *Triodia wiseana* and *Triodia vanleeuwenii* scattered hummock grasses. **Associated species:** *Eremophila latrobei* subsp. *filiformis*, *Lepidium platypetalum*, *Ptilotus exaltatus*, *Senna glutinosa* subsp. x*luerssenii* and *Tribulus suberosus*.	SGD045 SGD046 SGD126 SGDr063 SGDr074	-	Very Good to Excellent	6.39	0.05%	
Floodplain								
F1	ChGwAppSaoCcTp	*Corymbia hamersleyana* low open woodland over *Grevillea wickhamii* ?subsp. and Acacia *pyrifolia* var. *pyrifolia* tall open shrubland over *Senna artemisioides* subsp. *oligophylla* scattered shrubs over **Cenchrus ciliaris* open tussock grassland and *Triodia pungens* open hummock grassland. **Associated species:** *Acacia pyrifolia* var. *pyrifolia*, *Afrohybanthus aurantiacus*, *Atalaya hemiglauca*, *Euphorbia tannensis* subsp. *Eremophila*, *Evolvulus alsinoides* var. *villosicalyx*, *Gossypium robinsonii*, *Indigofera monophylla*, *Ptilotus exaltatus* and *Ptilotus obovatus* var. *obovatus*.	SGD025 SGD034 SGD088 SGD093 SGDr22	KOD30 KOD36 KRE03 KRE04 KAD07	Poor to Very Good	534.82	4.41%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
High hilltops and crests								
H13	EllEgEkGwMvTw	*Eucalyptus leucophloia* subsp. *leucophloia, Eucalyptus gamophylla* and *Eucalyptus kingsmillii* low open woodland over *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Mirbelia viminalis* low open shrubland over *Triodia wiseana* open hummock grassland. **Associated species:** *Acacia hamersleyensis*, *Acacia spondylophylla*, *Hakea chordophylla*, *Ptilotus exaltatus* and *Scaevola browniana* subsp. *browniana*.	SGD009 SGD026 SGD036 SGD061	KOD35 KRE30	Excellent	220.72	1.82%	
Gorge/gully								
G1	CfEllAtpGwAprAhTtTeTp	*Corymbia ferriticola* woodland over *Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* ?subsp., *Acacia pruinocarpa* and *Atalaya hemiglauca* tall shrubland over *Themeda triandra* open tussock grassland and *Triodia pungens* and *Triodia epactia* very open hummock grassland. **Associated species:** *Atalaya hemiglauca*, *Capparis spinosa* subsp. *nummularia*, **Cenchrus ciliaris*, *Cucumis variabilis*, *Cymbopogon ambiguus*, *Dodonaea pachyneura*, *Duperreya commixta*, *Eriachne mucronata*, *Gossypium robinsonii*, *Hibiscus* sp. Mt Robinson (G. Byrne 3537), *Santalum lanceolatum* and *Senna venusta*.	SGD032 SGD050 SGD056 SGD085 SGDr067	KOD13 KOD16 KOD47 KOD-RPA Q18 H425 H429 KRE-RCAC	Very Good to Excellent	38.05	0.31%	

Vegetation Code	Species Code	Vegetation Type Description	Sample Sites (Stantec)	Sample Sites (Previous)	Vegetation Condition	Extent within the Survey Area (ha)	Percentage of the Survey Area	Representative Photograph
Spring								
S1	EcrFvvCvTdCcTt	*Eucalyptus camaldulensis* subsp. *refulgens* open forest over *Ficus virens* var. *virens* low open woodland over *Cyperus vaginatus* and *Typha domingensis* sedgeland with *Cenchrus ciliaris* and *Themeda triandra* very open tussock grassland. **Associated species:** *Abutilon lepidum*, *Abutilon* sp. Dioicum (A.A. Mitchell PRP 1618), *Acacia bivenosa*, *Acacia pruinocarpa*, *Acacia pyrifolia* var. *pyrifolia*, *Atalaya hemiglauca*, *Capparis spinosa* var. *nummularia*, *Clerodendrum floribundum* var. *angustifolium*, *Duperreya commixta*, *Gossypium robinsonii*, *Jasminum didymum* subsp. *lineare*, *Lactuca saligna*, *Petalostylis labicheoides*, *Phyllanthus reticulatus*, *Rhynchosia bungarensis* and *Stylobasium spathulatum*.	-	KOD18 KOD18BANK KOD19	Good	4.30	0.04%	Photographs have not been included in this report due to potential cultural significance. Photographs were previously published in Bennelongia (2013).
Disturbed								
D	Disturbed	Disturbed	n/a	n/a	Completely degraded	1,010.05	8.33%	

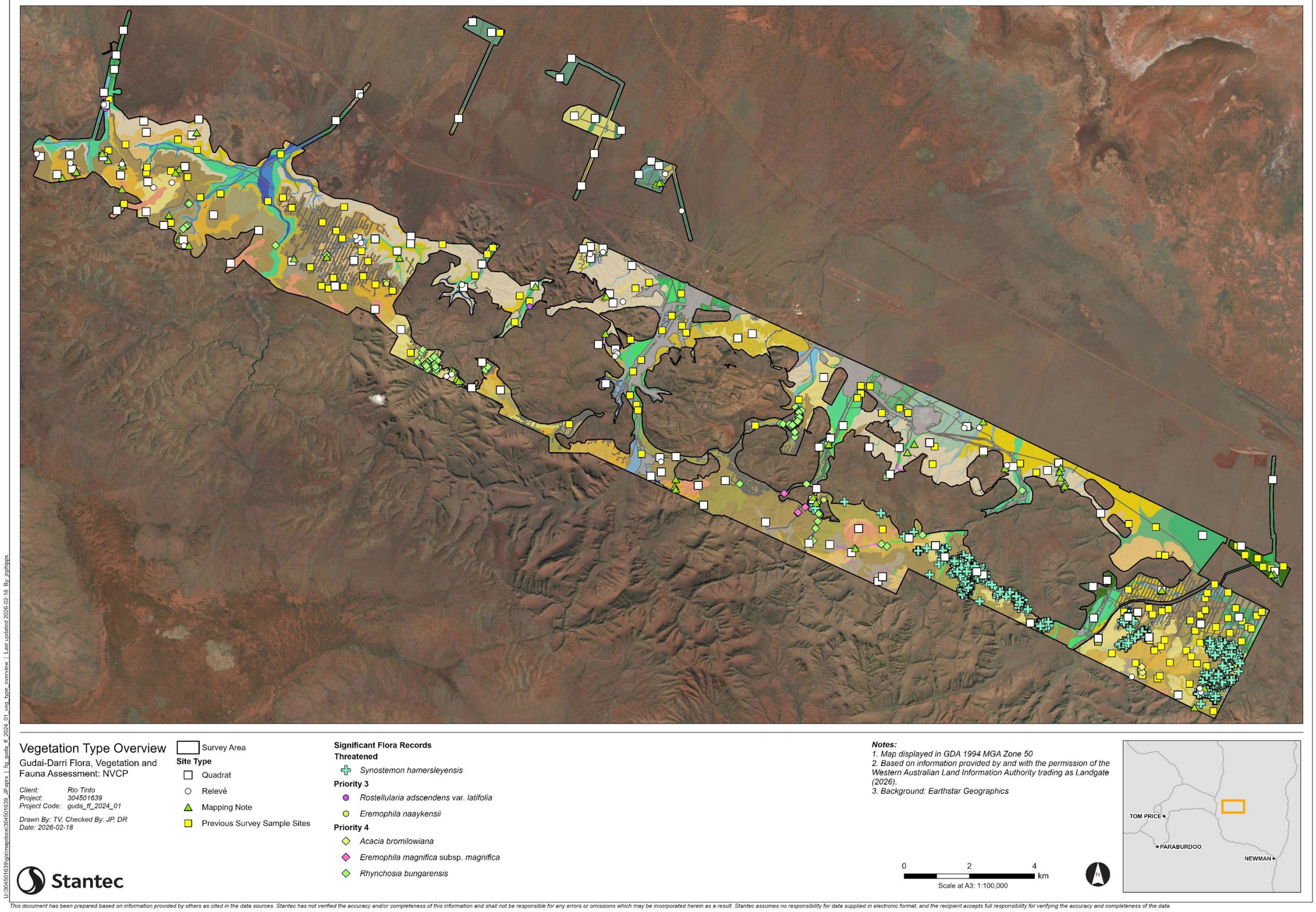


Figure 4-7: Vegetation type mapping of the Survey Area.

Plains

AprAaptPslDpPooTpTsp: *Acacia pruinocarpa, Acacia aptaneura,* and *Psydrax latifolia* tall shrubland over *Dodonaea petiolaris, Ptilotus obovatus* var. *obovatus* low open shrubland over *Triodia pungens* and/or *Triodia* sp. scattered tussock grasses.

AxEcTwTv: *Acacia xiphophylla* tall shrubland over *Eremophila cuneifolia* scattered low shrubs over *Triodia wiseana* and *Triodia vanleeuwenii* scattered hummock grasses.

ChAtpGwGrTsp.Tv: *Corymbia hamersleyana* low open woodland over *Acacia tumida* var. *pilbarensis, Grevillea wickhamii ?* subsp. and *Gossypium robinsonii* tall open scrub over *Triodia* sp. and *Triodia vanleeuwenii* open hummock grassland.

ChGwAppSaoCcTp: *Corymbia hamersleyana* low open woodland over *Grevillea wickhamii ?* subsp. and *Acacia pyrifolia* var. *pyrifolia* tall open shrubland over *Senna artemisioides* subsp. *oligophylla* scattered shrubs over **Cenchrus ciliaris* open tussock grassland and *Triodia pungens* open hummock grassland.

ChEgAiTeTb: *Corymbia hamersleyana* scattered low trees over *Eucalyptus gamophylla* very open mallee over *Acacia inaequilatera* tall open shrubland over *Triodia epactia* and *Triodia ? basedowii* open hummock grassland.

EgAancGwApacAppTb: *Eucalyptus gamophylla* low open mallee over *Acacia ancistrocarpa, Grevillea wickhamii ?* subsp. and *Acacia pachyacra* tall open shrubland over *Triodia ? basedowii* open hummock grassland.

EgAancTb: *Eucalyptus gamophylla* scattered mallee over *Acacia ancistrocarpa* tall open shrubland over *Triodia ? basedowii* open hummock grassland.

EgGwTv: *Eucalyptus gamophylla* scattered mallee over *Grevillea wickhamii ?* subsp. scattered tall shrubs over *Triodia vanleeuwenii* open hummock grassland.

GrGwAtpSlAppSaoPooCcTpTe: *Gossypium robinsonii, Grevillea wickhamii ?* subsp., *Acacia tumida* var. *pilbarensis* and *Santalum lanceolatum* tall shrubland over *Acacia pyrifolia* var. *pyrifolia* and *Senna artemisioides* subsp. *oligophylla* open shrubland over *Ptilotus obovatus* var. *obovatus* over *Cenchrus ciliaris* open tussock grassland and *Triodia epactia/pungens* very open hummock grassland.

GwAserAdTb: *Grevillea wickhamii ?* subsp. and *Acacia sericophylla* tall open shrubland over and *Acacia dictyophleba* scattered shrubs over *Triodia basedowii* open hummock grassland.

GwhAiTl: *Grevillea wickhamii* subsp. *hispidula* and *Acacia inaequilatera*scattered tall shrubs over *Triodia lanigera* hummock grassland.

Flowlines

AtpGwCcTp: *Acacia tumida* var. *pilbarensis* and *Grevillea wickhamii ?* subsp. tall shrubland over *Cenchrus ciliaris* open tussock grassland and *Triodia pungens* and/or *Triodia epactia* very open hummock grassland.

ChGwGrAmaiAmonTp: *Corymbia hamersleyana* low open woodland over *Gossypium robinsonii, Grevillea wickhamii* subsp. *hispidula, Acacia maitlandii* and *Acacia monticola* tall open shrubland over *Triodia pungens* open hummock grassland.

ChAtpGwGrTeCc: *Corymbia hamersleyana*low open woodland over *Acacia tumida* var. *pilbarensis, Grevillea wickhamii ?* subsp. and *Gossypium robinsonii* tall shrubland over **Cenchrus ciliaris* very open tussock grassland.

ChAtpPlTp: *Corymbia hamersleyana* low open woodland over *Acacia tumida* var. *pilbarensis* and *Petalostylis labicheoides* tall shrubland over *Triodia pungens* open hummock grassland.

EvAtpAppGrCc: *Eucalyptus victrix* low open woodland over *Acacia tumida* var. *pilbarensis, Acacia pyrifolia* var. *pyrifolia* and *Gossypium robinsonii* open shrubland over *Cenchrus ciliaris* tussock grassland.

Gorges

CfEllAtpGwAprAhTtTeTp: *Corymbia ferriticola* woodland over *Eucalyptus leucophloia* subsp *leucophloia* low open woodland over *Acacia tumida* var. *pilbarensis, Grevillea wickhamii ?* subsp., *Acacia pruinocarpa* and *Atalaya hemiglauca* tall shrubland over *Themeda triandra* open hummock grassland over *Triodia pungens* and *Triodia epactia* very open hummock grassland.

EcrFvvCvTdCcTt: *Eucalyptus camaldulensis* subsp. *refulgens* open forest over *Ficus virens* var. *virens* low open woodland over *Cyperus vaginatus* and *Typha domingensis* sedgeland with *Cenchrus ciliaris*and *Themeda triandra* very open tussock grassland.

Vegetation Type Descriptions: Legend Sheet 1

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

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Hills

AaAprTwTv: *Acacia* sp. (*aneura complex*) and *Acacia pruinocarpa* tall shrubland over *Triodia wiseana* and *Triodia vanleeuwenii* open hummock grassland.

ChEgAiGwTvTw:*Corymbia hamersleyana* scattered low trees over *Eucalyptus gamophylla* scattered mallee over *Acacia inaequilatera* and *Grevillea wickhamii ?* subsp. tall open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* hummock grassland.

ChEgGw/AiTp: *Corymbia hamersleyana* low open woodland over *Eucalyptus gamophylla* low open mallee over *Grevillea wickhamii* and/or *Acacia inaequilatera* scattered tall shrubs over *Triodia pungens* open hummock grassland.

Ch/CddTvTw: *Corymbia hamersleyana* and/or *Corymbia deserticola* subsp. *deserticola* low open woodland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

EllChGwAhiAspoTwTv: *Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Grevillea wickhamii ?* subsp. tall open shrubland over *Acacia hilliana* and *Acacia spondylophylla* low open shrubland over *Triodia wiseana* and *Triodia vanleeuwenii* open hummock grassland.

EllChGwAspoTw: *Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Grevillea wickhamii ?* subsp. scattered tall shrubs over *Acacia spondylophylla* scattered low shrubs over *Triodia wiseana* open hummock grassland.

EllEgAhiTvTw: *Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Eucalyptus gamophylla* low open mallee over *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

EllEgGwHcAspoAhiTv: *Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Eucalyptus gamophylla* open mallee over *Hakea chordophylla* scattered tall shrubs over *Acacia spondylophylla* and *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* open hummock grassland.

EllGwAaridAspoMvTvTw: *Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Grevillea wickhamii ?* subsp. scattered shrubs over *Acacia arida, Acacia spondylophylla* and *Mirbelia viminalis* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

EllGwAspoAhiTv: *Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Grevillea wickhamii ?* subsp. tall open shrubland over *Acacia spondylophylla* and *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* open hummock grassland.

EllGwAbTwTv: *Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Grevillea wickhamii* scattered tall shrubs over *Acacia bivenosa* open shrubland over *Triodia wiseana* and *Triodia vanleeuwenii* open hummock grassland.

EllHcAmaiAprAbTv: *Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Hakea chordophylla* scattered tall shrubs over *Acacia maitlandii* and/or *Acacia pruinocarpa* and/or *Acacia bivenosa* scattered shrubs over *Triodia vanleeuwenii* open hummock grassland.

EllSgpSggGwTbriz: *Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Senna glutinosa* subsp. *pruinosa* and *Senna glutinosa* subsp. *glutinosa* and *Grevillea wickhamii ?* subsp. scattered tall shrubs over *Triodia brizoides* open hummock grassland.

EllTeTp: *Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Triodia epactia* and/or *Triodia pungens* open hummock grassland.

EllEgEkGwMvTw: *Eucalyptus leucophloia* subsp. *leucophloia, Eucalyptus gamophylla* and *Eucalyptus kingsmillii* low open woodland over *Grevillea wickhamii ?* subsp. scattered tall shrubs over *Mirbelia viminalis* low open shrubland over *Triodia wiseana* open hummock grassland.

Disturbed

Disturbed

Vegetation Type Descriptions: Legend Sheet 2

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

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4.2.2.2 Significant Vegetation

Priority Ecological Communities

None of the vegetation types mapped within the Survey Area are analogous to known TECs. The vegetation and ecological features associated with the Koodaideri Spring (EcrFvvCvTdCcTt) is likely to represent an occurrence of the Priority 2 'Riparian flora and plant communities of springs and river pools with high water permanence of the Pilbara Region' PEC. This vegetation type, mapped over 4.3 ha within the Survey Area (0.04% of the Survey Area), was assessed to be in Good condition (Biota 2012f). The nearest mapped occurrence of this PEC, based on DBCA database search results, is approximately 14 km west of the Survey Area (DBCA 2024e).

The Koodaideri Spring is located within an unnamed creek where groundwater seeps from a rock wall extending across a narrow gorge and discharges into a narrow valley with a series of small channels and pools downstream of the spring (Eco Logical 2013). The water supply of the spring is provided by a combination of the shallow groundwater in the colluvium/alluvial fill of the gorge to the west of the spring and by discharge from the regional fractured rock aquifer (Bennelongia 2013). The surface discharge comes from a small spring in a rockface/boulder field and flows north before intersecting the larger gorge and flowing north-east (Bennelongia 2013). Given access to the Koodaideri Spring was not permitted during the Stantec survey, several reports, along with available data from previous sample sites and vegetation mapping, were used to describe and assess this localised landform and vegetation assemblage. This assemblage is considered generally uncommon across the broader Pilbara bioregion (RTIO 2015).

Previous flora and vegetation surveys at Koodaideri Spring includes those conducted by Biota (2012f) and Bennelongia (2013), while a substantial amount of assessment in the form of annual monitoring programs have also been undertaken. Following the consolidation of this information, the vegetation at Koodaideri Spring was described as '*Eucalyptus camaldulensis* subsp. *refulgens* open forest over *Ficus virens* var. *virens* low open woodland over *Cyperus vaginatus* and *Typha domingensis* sedgeland with **Cenchrus ciliaris* and *Themeda triandra* very open tussock grassland.'

Group 6.1 in Lyons (2015) differentiates the PEC from other riparian vegetation types found throughout the Hamersley Ranges and inland Pilbara, based on the presence of significant indicator species, two of which, *Eucalyptus camaldulensis* and *Typha domingensis*, are present within the vegetation at Koodaideri Spring. The (DBCA 2023) also defines this PEC as "riparian zones of permanent wetlands with high soil moisture maintained by groundwater flows, and occurrences are typically associated with gorge and valley wetlands often coupled with significant shading". The ecological features of the Koodaideri Spring include a deep gorge, surface water, and dense canopy of *Eucalyptus camaldulensis* subsp. *refulgens* and *Ficus virens* var. *virens*, which provide prolonged shading. These attributes indicate that the vegetation type EcrFvvCvTdCcTt at the Koodaideri Spring is analogous to the PEC.

Vegetation Supporting Threatened and Priority Flora

Of the 33 vegetation types mapped within the Survey Area, 21 support significant flora, and areas mapped as Disturbed supported four significant flora (**Table 4-7**). However, especially on occasions when significant flora records are close to boundary lines, the delineation of vegetation type polygons may misrepresent the habitat at the specific location of the flora record.

Two vegetation types collectively supported the majority (70.4%) of *Synostemon hamersleyensis* (T: En) records:

- EllGwAaridAspoMvTvTw (44.2% of records); and
- EllChGwAhiAspoTwTv (26.2% of records).

The entire extent of these vegetation types should not be considered locally significant due to the association with *Synostemon hamersleyensis* (T: En), given the known range of the species does not extend into the western half of the Survey Area (**Figure 4-3**), yet the two vegetation types were mapped extensively across the Survey Area. Previous studies indicate that many *Synostemon hamersleyensis* (T: En) records occur within a specific range of elevation, and there is a geological correlation with the Joffre member of the Brockman Iron Formation (Naaykens and Telford 2015; RTIO 2013b; RTIO and WAH 2015).

Over 75% of *Rhynchosia bungarensis* (P4) records occur in conjunction with vegetation type EcrFvvCvTdCcTt, mapped as occurring only at the Koodaideri Spring, however this likely reflects the amount of biological survey and monitoring associated within the spring. *Rhynchosia bungarensis* (P4) records occur within 18 vegetation types across the Survey Area, and also within areas mapped as Disturbed (**Table 4-7**). *Rhynchosia bungarensis* (P4) is known to occur in rocky gorges, gullies, river beds and alluvial soils, and is abundant locally, beyond the Survey Area (RTIO and WAH 2015).

Table 4-7: Vegetation types supporting threatened or priority flora within the Survey Area.

Vegetation type	Extent within Survey Area (ha)	Percentage of Survey Area	Significant Flora	Number of records	Percentage of total records
Hilltops and Hillslopes					
EllChGwAhiAspoTwTv	2,039.45	16.83%	*Eremophila magnifica* subsp. *magnifica* (P4)	3	33.3
			Rhynchosia bungarensis (P4)	8	2.1
			Sida sp. Barlee Range (S. van Leeuwen 1642) (P4)	56	20.7
			Synostemon hamersleyensis (T)	1,206	26.2
EllGwAbTwTv	1,535.39	12.67%	*Synostemon hamersleyensis* (T)	3	0.1
			Lepidium catapycnon (P4)	48	90.6
EllGwAaridAspoMvTvTw	809.67	6.68%	*Acacia bromilowiana* (P4)	1	50
			Eremophila naaykensii	1	100
			Rhynchosia bungarensis (P4)	8	2.1
			Sida sp. Barlee Range (S. van Leeuwen 1642) (P4)	42	15.5
			Synostemon hamersleyensis (T)	2,035	44.2
EllHcAmaiAprAbTv	749.69	6.19%	*Lepidium catapycnon* (P4)	1	1.9
			Synostemon hamersleyensis (T)	318	6.9
EllEgGwHcAspoAhiTv	508.42	4.19%	*Rhynchosia bungarensis* (P4)	14	3.7
EllChGwAspoTw	489.54	4.04%	*Acacia bromilowiana* (P4)	1	50
			Eremophila magnifica subsp. *magnifica* (P4)	3	33.3
			Rhynchosia bungarensis (P4)	1	0.3
			Synostemon hamersleyensis (T)	84	1.8
EllTeTp	439.32	3.62%	*Synostemon hamersleyensis* (T)	527	11.5
			Rhynchosia bungarensis (P4)	5	1.3
			Sida sp. Barlee Range (S. van Leeuwen 1642) (P4)	45	16.6
EllSgpSggGwTbriz	395.36	3.26%	*Rhynchosia bungarensis* (P4)	1	0.3
			Synostemon hamersleyensis (T)	104	2.3
EllGwAspoAhiTv	298.54	2.46%	*Rhynchosia bungarensis* (P4)	1	0.3
			Synostemon hamersleyensis (T)	6	0.1
Ch/CddTvTw	85.17	0.70%	*Rhynchosia bungarensis* (P4)	9	2.4
			Lepidium catapycnon (P4)	1	1.9
Drainage					
GrGwSlAtuAppSaoPooCcTpTe	280.29	2.31%	*Synostemon hamersleyensis* (T)	7	0.2
			Rostellularia adscendens var. *latifolia* (P3)	1	33.3
			Rhynchosia bungarensis (P4)	1	0.3
			Sida sp. Barlee Range (S. van Leeuwen 1642) (P4)	11	4.1
ChAtpGwGrTeCc	238.90	1.97%	*Synostemon hamersleyensis* (T)	1	<0.1
ChAtpPlTp	155.08	1.28%	*Lepidium catapycnon* (P4)	1	1.9
			Rhynchosia bungarensis (P4)	5	1.3
AtpGwCcTp	68.69	0.57%	*Rostellularia adscendens* var. *latifolia* (P3)	2	66.6
			Rhynchosia bungarensis (P4)	5	1.3
			Sida sp. Barlee Range (S. van Leeuwen 1642) (P4)	105	38.7
EvAtpAppGrCc	61.45	0.51%	*Rhynchosia bungarensis* (P4)	7	1.9
			Sida sp. Barlee Range (S. van Leeuwen 1642) (P4)	3	1.1
			Synostemon hamersleyensis (T)	2	<0.1
ChGwGrAmaiAmonTp	35.36	0.29%	*Synostemon hamersleyensis* (T)	25	0.5
			Rhynchosia bungarensis (P4)	5	1.3
ChAtpGwGrTsp.Tv	5.33	0.04%	*Synostemon hamersleyensis* (T)	22	0.5
Undulating plains and footslopes					
ChEgAiGwTvTw	201.14	1.66%	*Rhynchosia bungarensis* (P4)	3	0.8
Floodplain					
ChGwAppSaoCcTp	534.82	4.41%	*Lepidium catapycnon* (P4)	2	3.8
			Rhynchosia bungarensis (P4)	13	3.4
Gorge/gully					
CfEllAtpGwAprAhTtTeTp	38.05	0.31%	*Synostemon hamersleyensis* (T)	260	5.7
			Rhynchosia bungarensis (P4)	6	1.6
			Sida sp. Barlee Range (S. van Leeuwen 1642) (P4)	7	2.6
Spring					
EcrFvvCvTdCcTt	4.30	0.04%	*Rhynchosia bungarensis* (P4)	285	75.6
			Sida sp. Barlee Range (S. van Leeuwen 1642) (P4)	1	0.4

Vegetation type	Extent within Survey Area (ha)	Percentage of Survey Area	Significant Flora	Number of records	Percentage of total records
Disturbed					
Disturbed	1,010.06	8.3%	*Synostemon hamersleyensis* (T)	1	<0.1
			Eremophila magnifica subsp. *magnifica* (P4)	3	33.3
			Rhynchosia bungarensis (P4)	5	1.3

4.2.2.3 Ecosystems At Risk

The Biodiversity Audit of Western Australia's 53 Biogeographical Subregions identifies and discusses 'Ecosystems at Risk' (EAR) (CALM 2002; Kendrick 2001a; b). Although potential EARs are not applicable to statutory protection, they were also considered in the context of classifying the vegetation and habitats within the Survey Area. Following the assessment of the 33 vegetation types described within the Survey Area (and associated habitat information), two were considered analogous to EARs listed within Kendrick (2001a; 2001b): Lower slope Mulga EAR and Hill-top floras, Hamersley Range EAR. No vegetation types within the Survey Area featuring Mulga were considered analogous to the 'Grove-intergrove Mulga communities at the Southern end of the northern apron of Hamersley Range' EAR as there were no distinct banding patterns evident.

Lower slope Mulga

One vegetation type occurring on hill slopes and/or crests is considered to represent the lower slope Mulga EAR: AaAprTwTv. This vegetation type was characterised by *Acacia aptaneura* on hillslopes, with an understorey of *Triodia* spp. and was mapped over 6.7 ha (0.06% of the Survey Area). Previous vegetation type mapping delineated discreet representations of Mulga communities occurring on hillslopes or crests within the Survey Area which were retained and refined during the preparation of mapping for this report.

There were seven relatively small polygons mapped as AaAprTwTv within the Survey Area, ranging from 0.3 ha to 2.8 ha. Mapping from previous surveys that extends beyond the Survey Area indicates that Mulga communities on hillslopes also occur sporadically in the local region. The vegetation condition of Mulga communities occurring on hill slopes or crests was Excellent. The primary threat to lower slope Mulga EAR is an increased frequency of fire, potentially preventing regeneration (Kendrick 2001a).

Hill-top floras, Hamersley Range

One vegetation type typically occurring on upper hillslopes and hillcrests is likely to represent the hill-top floras, Hamersley Range EAR. Vegetation type EllEgEkGwMvTw features low open mallee woodlands on top of high hills with an overstorey of *Eucalyptus kingsmillii, Eucalyptus gamophylla* and/or *Eucalyptus leucophloia* subsp. *leucophloia*. The vegetation type EllEgEkGwMvTw was mapped over 220.7 ha (1.8% of the Survey Area) and was in Excellent condition. Threats to this EAR include fire regimes of increased frequency potentially preventing regeneration (Kendrick 2001a).

4.2.2.4 Potential Groundwater-dependent Vegetation

Groundwater-dependent vegetation is primarily characterised by phreatophytes (species that rely on groundwater) being dominant in the landscape, while other riparian species that may or may not utilise groundwater often co-occur (Braimbridge *et al.* 2010; Hose *et al.* 2021). The vegetation associated with the Koodaideri Spring is considered likely to represent GDV due to the dominance of the facultative phreatophyte, *Eucalyptus camaldulensis* subsp. *refulgens*.

One other riparian vegetation type mapped within the Survey Area may represent potential GDV, EvAtpAppGrCc, although *Eucalyptus victrix* were not particularly abundant within the vegetation type. Vegetation type EvAtpAppGrCc was mapped across a relatively small portion of the Survey Area (61.4 ha, 0.5%), located in a north-facing valley between the surrounding hills of the Hamersley Ranges. The vegetation condition was considered to range from good to poor, primarily due to the dominance of **Cenchrus ciliaris* in the understorey.

The water use strategies of *Eucalyptus victrix* appear flexible and opportunistic, enabling survival in a wide range of ecohydrological settings (Pfautsch *et al.* 2014). *Eucalyptus victrix* is known to occur across a greater range of habitats in the Pilbara than *Eucalyptus camaldulensis,* which includes floodplains and drainage features (WAH 2025). Loomes (2010) found the mean minimum water depth level for locations supporting *Eucalyptus victrix* was greater than locations supporting *Eucalyptus camaldulensis*, indicating *Eucalyptus victrix* has less dependence on groundwater. However, studies have indicated that when provided access to groundwater, *Eucalyptus victrix* can maintain high leaf water potentials and high rates of water use during drought (O'Grady 2009; Pfautsch *et al.* 2014; Pfautsch *et al.* 2011).

4.2.2.5 Vegetation Condition

Vegetation condition in the Survey Area ranged from Excellent to Completely Degraded, with the majority of the Survey Area (70.7%) mapped as Excellent condition (**Table 4-8, Figure 4-8**). Detailed vegetation condition mapping is provided in **Appendix M**. Cleared land associated with roads, tracks and mining activities was mapped as Completely Degraded and comprised 1,010.06 ha (8.3%) of the Survey Area. The disturbance shapefile layer supplied by Rio Tinto in August 2025 was primarily used to delineate the areas mapped as Completely Degraded within the Survey Area. Weed proliferation was a common form of impact to the vegetation condition, and weeds characterised the vegetation types in drainage areas within the Survey Area (**Plate 4-3**).

Minimal evidence of widespread, recently burnt vegetation within the Survey Area was observed during the Stantec survey. These observations were supported by a review of NAFI (2025) mapping of fire scars in the local area, which indicated that all recent fires since 2020 have occurred beyond the boundary of the Survey Area.

Table 4-8: Vegetation condition within the Survey Area.

Vegetation condition	Extent within the Survey Area (ha)	Percentage of the Survey Area
Excellent	8,567.14	70.67%
Very Good	1,361.73	11.23%
Good	864.68	7.13%
Poor	319.22	2.63%
Degraded	0	0%
Completely Degraded (cleared)	1,010.06	8.33%

Plate 4-3: **Cenchrus ciliaris* dominant within the lower strata of a drainage habitat within the Survey Area.

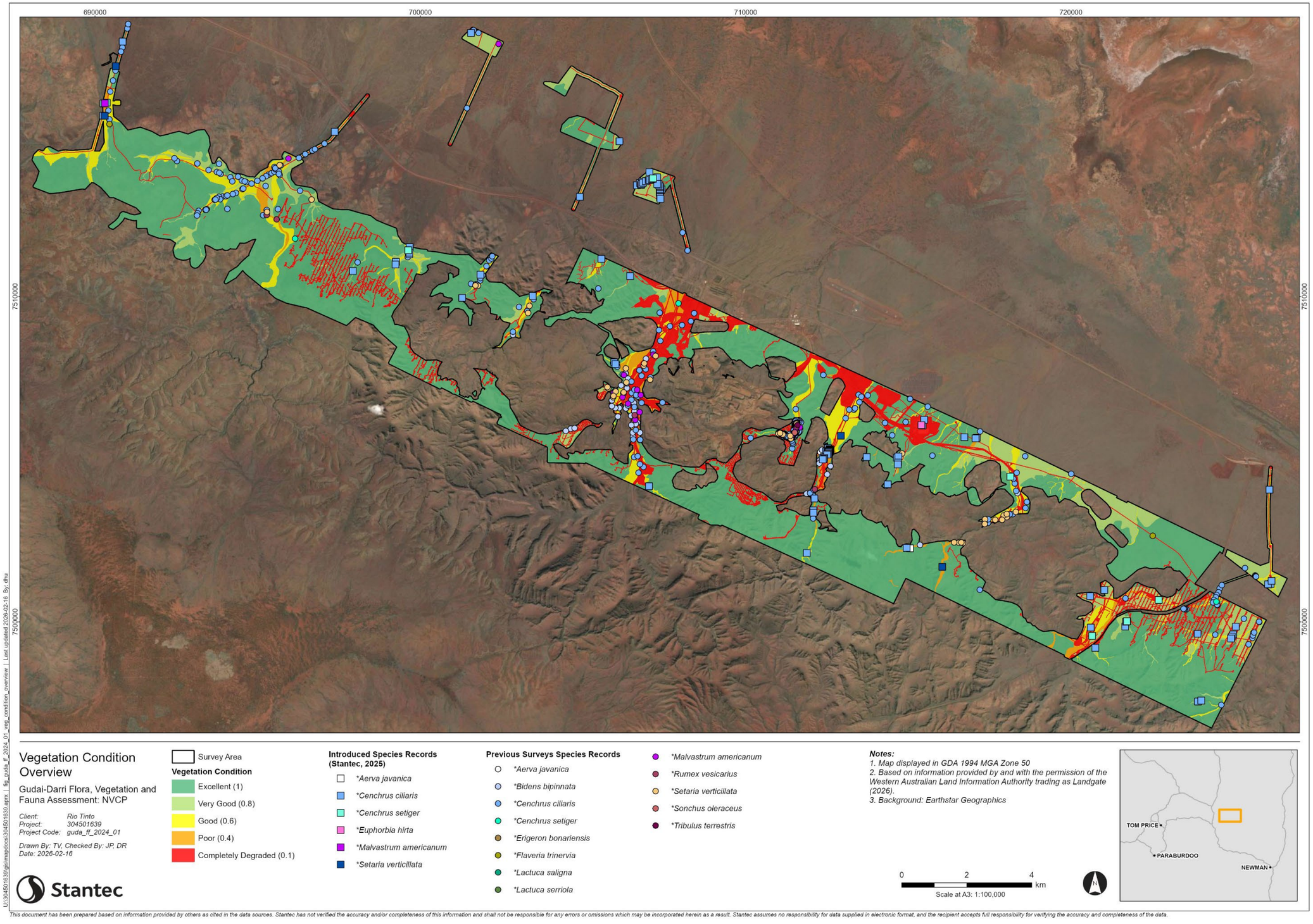

Figure 4-8: Vegetation condition mapping within the Survey Area.

5. Limitations and Constraints

There are a number of potential limitations and constraints that can affect the adequacy of flora and vegetation surveys. Potential limitations and constraints are discussed in **Table 5-1**.

Table 5-1: Potential limitations and constraints.

Factor	Constraint	Comment
Remoteness / access problems	Partial	The large extent and steep terrain within the Survey Area were recognised as limiting factors prior to the survey. Vehicle access was restricted across much of the Survey Area, necessitating the use of helicopters to access sampling locations and to assess landforms and habitats. Access was not permitted within the heritage exclusion areas mapped within the Survey Area, representing 2,201 ha (18.2%). As no flora and vegetation sampling or habitat assessments were conducted within these areas; vegetation type and vegetation condition was predominantly informed by data and reports from previous surveys. Additionally, the mapping was extrapolated from adjacent areas that were traversed during the survey, and by the interpretation of aerial imagery and appropriate geospatial layers.
Completeness and intensity	Partial	Survey completeness was constrained by access to heritage exclusions, as detailed above. However, in the portions of the Survey Area that were accessible, flora and vegetation survey intensity was considered adequate, with 118 quadrats and 28 relevés established by Stantec and sampled within the Survey Area to compile a representative species list and to characterise the vegetation types (**Section 3.2.4**). One vegetation type within the Survey Area (AaAprTwTv) was described from a single relevé sampled during the Stantec survey. Some polygons of a previously mapped vegetation type analogous to AaAprTwTv occur within exclusion areas and therefore could not be accessed during the Stantec survey. This vegetation type was considered likely to represent the lower slope Mulga EAR: AaAprTwTv and was mapped across 6.7 ha (0.06%) of the Survey Area.
Timing / weather / season / cycle	Partial	Below average rainfall was recorded at Gudai Darri in the three months prior to the survey, compared to long-term mean monthly rainfall totals for the same period recorded at both Marillana and Newman Aero weather stations (**Section 3.2.1**). Rain and lightning storms occurred during the survey, occasionally causing a small reduction of time in the field. The on-ground conditions were often noted to be below average compared to typical post-wet seasonal conditions with grasses and herbaceous species generally appearing desiccated across most landforms that were traversed during the survey.
Proportion of species identified	Partial	Following the consolidation of applicable data from previous surveys, 381 confirmed vascular flora (including species, subspecies, varieties, forms, hybrids, parasitic species, native and introduced species) from 49 families and 146 genera have been recorded within the Survey Area. The Stantec survey recorded 256 confirmed vascular flora, 47 of which had not been recorded in the Survey Area during previous surveys. On some occasions, insufficient diagnostic material prevented a confident identification distinguishing *Triodia epactia* from *Triodia pungens*. The below average seasonal conditions and relatively dry vegetation is likely to have influenced specimens collected without intact inflorescences. These *Triodia* species were dominant in some portions of the Survey Area and have the same general habitat preferences. For instances where there was taxonomic uncertainty, '*Triodia* sp.' was included in applicable vegetation descriptions. Barrett *et al.* (2017) indicates *Triodia epactia* and *Triodia pungens* appear to be a polyphyletic species complex and the two may be better treated at a subspecies rank.

Factor	Constraint	Comment
		While there is potential for additional species to occur in the Survey Area, a large proportion of the diversity has likely been identified from the substantial volume of survey work that has been conducted at Gudai Darri over many years.
Competency and experience of consultants	No	The field teams comprised personnel with considerable experience in conducting flora and vegetation surveys in the Eremaean Botanical Province. The survey lead, Daniel Roocke (Principal Botanist) has 15 years of experience undertaking a range of flora and vegetation assessments in the Pilbara bioregion (**Section 3.2.2**). Flora specimen identifications were undertaken by Principal Taxonomist Sharnya Yates who has extensive experience in identifying WA flora. Significant flora specimens were verified by Steven Dillon, the WAH taxonomist sponsored by Rio Tinto (**Section 3.3.1**).
Scope	No	The scope of works was well defined, and the objectives of the survey were clear and understood. The scope of works was aligned to all applicable legislative regulations (**Section 1.3**).
Information sources (e.g. historic or recent)	No	Broad scale historic information was available and reviewed as part of the desktop assessment (**Section 2**). Numerous flora and vegetation desktop assessments and surveys have previously occurred either within, or in proximity to the Survey Area (**Section 3.1.2**). The reports and data were assessed during the literature review to inform the significant flora likelihood assessment and potential landforms and vegetation types within the Survey Area. Species that were previously classified as significant (for example, *Goodenia nuda*) were omitted from the list of significant flora presented in the desktop assessment. Similarly, discretion was applied to significant flora presented in previous reports such as *Nicotiana umbratica* (P3), particularly when the Rio Tinto significant flora database did not include the species in question (RTIO 2025a). Furthermore, since 2013, the *Nicotiana* genus has undergone revisions, with six new taxa described that occur in the Pilbara bioregion (S. Dillon, WAH, pers. comm. 16 November 2023). Therefore, previous records of *Nicotiana umbratica* (P3) were not considered currently correct. Previously completed vegetation type mapping was also used as a foundation for the vegetation type mapping results presented in this report. Therefore, the availability of information did not constrain the findings presented in this report.
Disturbances	No	Disturbances did not limit the field survey teams' ability to address the scope and objectives of the survey or prevent access to the Survey Area. The fire history within the Survey Area did not constrain the identification of significant flora and vegetation values. Existing mining operations and infrastructure occur within the Survey Area, including the Gudai Darri accommodation village. Existing cleared vegetation and substantial disturbances were generally captured by the Rio Tinto disturbance geospatial layers.
Resources	No	Resources were adequate to carry out the survey and the field personnel were competent in the identification of species present. Herbarium specimens, taxonomic guides, and DBCA database searches were reviewed in preparation of the survey.

6. Summary and Conclusions

The Survey Area broadly consists of landforms, habitats and vegetation types that are common to the PIL03 subregion of the Pilbara bioregion which comprises over 87% of the Survey Area. Prominent landform features include hillslopes and hilltops, gorges and gullies, broad valleys and drainage lines. The northern portions of the Survey Area occur within the PIL02 subregion and were typically associated with plains supporting a suite of *Acacia* spp. and *Triodia* hummock grasslands.

Data from the 118 quadrats and 28 relevés that were established by Stantec and sampled within the Survey Area were consolidated with data from previous surveys (61 quadrats 79 relevés) to compile a representative species list and to characterise the vegetation types. The vegetation mapping from a selection of the previous surveys was ground-truthed in the field, and adjustments to vegetation type boundaries and descriptions were made following the Stantec survey, as necessary.

A consolidated total of 381 fully identified vascular flora (including species, subspecies, varieties, forms, hybrids, native and introduced species) have been recorded within the Survey Area, of which 256 were recorded during this survey. The 381 vascular flora comprises 49 families and 146 genera, and the most represented families were Fabaceae (peas), Poaceae (grasses) and Malvaceae (mallows), and the most diverse genus was *Acacia* (wattles).

Six significant flora have been recorded within the Survey Area, inclusive of records from previous surveys and databases managed by the DBCA These significant flora represent *Synostemon hamersleyensis* (T: En), *Eremophila naaykensii* (P3), *Rostellularia adscendens* var. *latifolia* (P3), *Acacia bromilowiana* (P4), *Eremophila magnifica* subsp. *magnifica* (P4) and *Rhynchosia bungarensis* (P4). In addition, 11 taxa were considered to represent flora of other significance as they were identified as a likely new taxon, range extensions, naturally occurring hybrids, or unconfirmed Priority flora.

Eight specimens collected during the Stantec survey were identified as *Corchorus* aff. *tectus*, given they had affinity to, but differed from, typical *Corchorus tectus*. *Corchorus* aff. *tectus* was recorded at 10 locations during the Stantec survey, however it is likely to be more widespread than the records suggest, occurring in association with loamy or stony plains across the northern portions of the Survey Area. This taxon is likely to represent an undescribed taxon, and a phrase-name will be applied following the completion of a genetic study.

A total of 14 introduced flora (weeds) have been recorded within the Survey Area, inclusive of records from previous surveys, none of which represent a WoNs or a Declared Pest. The diversity of introduced flora within the Survey Area is considered typical for the Pilbara bioregion, with the majority of weed records occurring in drainage lines, or in association with disturbed vegetation or infrastructure.

There were 33 vegetation types described and mapped within the Survey Area, none of which represent a TEC. Additionally, approximately 1,010 ha (8.3%) of the Survey Area has been cleared of vegetation, predominantly for mining operations (including the accommodation village, roads, drill pads and access tracks).

The Koodaideri Spring is located within an unnamed creek within the Survey Area, where groundwater seeps from a rock wall extending across a narrow gorge and discharges into a narrow valley with a series of small channels and pools downstream of the spring. These ecological values of the Koodaideri Spring are considered relatively uncommon across the Pilbara bioregion. The vegetation type associated with the Koodaideri Spring (EcrFvvCvTdCcTt) is comprised of a dense canopy of the facultative phreatophyte, *Eucalyptus camaldulensis* subsp. *refulgens*, along with *Ficus virens* subsp. *virens*, which together provide prolonged shading, with *Typha domingensis* amongst the understorey. The collective ecological and floristic attributes indicate EcrFvvCvTdCcTt at the Koodaideri Spring is analogous to the Priority 2 'Riparian flora and plant communities of springs and river pools with high water permanence of the Pilbara Region' PEC. The Koodaideri Spring vegetation type (EcrFvvCvTdCcTt) was mapped over 4.3 ha (0.04% of the Survey Area) and was considered to be in Good condition.

Of the 33 vegetation types, two were considered analogous to EARs within the Hamersley subregion. Discreet representations of Mulga communities occurring on hillslopes or crests within the Survey Area were mapped over 6.7 ha (0.06% of the Survey Area). One vegetation type typically occurring on upper hillslopes and hillcrests is likely to represent the hill-top floras, Hamersley Range EAR. Vegetation type EllEgEkGwMvTw features low open mallee woodlands on top of high hills with an overstorey of *Eucalyptus kingsmillii, Eucalyptus gamophylla* and/or *Eucalyptus leucophloia* subsp. *leucophloia*. The vegetation type EllEgEkGwMvTw was mapped over 220.7 ha (1.8% of the Survey Area).

Vegetation condition in the Survey Area ranged from Excellent to Completely Degraded, with the majority of the Survey Area (70.7%) mapped as Excellent condition. Weed proliferation was a common form of impact to the vegetation condition, and weeds were a feature of some representations of riparian vegetation within the Survey Area.

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Appendices

Appendix A Environmentally Sensitive Areas

Under Section 51B of the *Environmental Protection Act (1986)*, Environmentally Sensitive Areas (ESAs) are declared by the Minister for Environment. The following areas are declared to be ESAs:

- a declared World Heritage property as defined in section 13 of the *Environment Protection and Biodiversity Conservation Act 1999* of the Commonwealth;
- an area that is included on the Register of the National Estate, because of its natural heritage value, under the Australian Heritage Council Act 2003 of the Commonwealth;
- a defined wetland and the area within 50 metres of the wetland. Defined wetlands include Ramsar wetlands, conservation category wetlands and nationally important wetlands;
- the area covered by vegetation within 50 metres of rare flora, to the extent to which the vegetation is continuous with the vegetation in which the rare flora is located;
- the area covered by a threatened ecological community;
- a Bush Forever site listed in "Bush Forever" Volumes 1 and 2 (2000), published by the Western Australia Planning Commission, except to the extent to which the site is approved to be developed by the Western Australia Planning Commission;
- the areas covered by the Environmental Protection (Gnangara Mound Crown Land) Policy 1992;
- the areas covered by the Environmental Protection (Western Swamp Tortoise Habitat) Policy 2002;
- the areas covered by the lakes to which the Environmental Protection (Swan Coastal Plain Lakes) Policy 1992 applies; and
- protected wetlands as defined in the Environmental Protection (Southwest Agricultural Zone Wetlands) Policy 1998.

Appendix B Codes and Terms Used to Describe Communities and Species of Significance and Categories of Introduced Flora

Flora and Vegetation: The Environmental Factor Guideline for Flora and Vegetation (EPA 2016b) states that flora and vegetation may be considered significant for a range of reasons, including, but not limited to the following:

Flora: 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; relictual status, being representative of taxonomic groups that no longer occur widely in the broader landscape.

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

Flora, vegetation and fauna defined as 'Threatened' are legislated for protection under the EPBC Act and/or the BC Act. Meanwhile, Priority flora are not managed under legislation, instead listed on the DBCA Priority Species List. This Appendix presents a summary of the different rankings and listings used to describe conservation status. Some categories, such as 'extinct', 'extinct in the wild' and 'conservation dependent' (EPBC Act) are not presented here, as the table includes only the information needed to fully understand the codes presented in the preceding report. Refer to the relevant legislation for a full description of all codes in use, as well as their associated criteria.

Categories used under the EPBC Act.

Status	Code	Description
Critically Endangered	Cr	Taxa considered to be facing an extremely high risk of extinction in the wild in the immediate future
Endangered	En	Taxa considered to be facing a very high risk of extinction in the wild in the near future
Vulnerable	Vu	Taxa considered to be facing a high risk of extinction in the wild in the medium-term future
Migratory	Mi	Species that migrate to, over and within Australia and its external territories

Conservation codes used under the BC Act.

Status	Code	Description
Critically Endangered	CR	Taxa rare or likely to become extinct, as critically endangered taxa
Endangered	EN	Taxa rare or likely to become extinct, as endangered taxa
Vulnerable	VU	Taxa rare or likely to become extinct, as vulnerable taxa
Presumed Extinct	EX	Taxa presumed to be extinct
Migratory	IA	Birds subject to international agreements relating to the protection of migratory birds
Conservation Dependent	CD	Taxa of special conservation need, being species dependent on ongoing conservation intervention
Special Protection	OS	Taxa in need of special protection

Categories of Priority Flora.

Status	Code	Description
Priority 1: Poorly-known Species	P1	Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.
Priority 2: Poorly-known Species	P2	Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.
Priority 3: Poorly-known Species	P3	Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.
Priority 4: Rare, Near Threatened and other species in need of monitoring	P4	(a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands. (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for Vulnerable, but are not listed as Conservation Dependent. (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

Definitions, categories and criteria for threatened and priority ecological communities.

Term	Description
Ecological community	A naturally occurring biological assemblage that occurs in a particular type of habitat. Note: The scale at which ecological communities are defined will often depend on the level of detail in the information source, therefore no particular scale is specified.
Threatened ecological community (TEC)	A threatened ecological community (TEC) is one which is found to fit into one of the following categories; “presumed totally destroyed”, “critically endangered”, “endangered” or “vulnerable”. Possible threatened ecological communities that do not meet survey criteria are added to DEC’s Priority Ecological Community (PEC) Lists under Priorities 1, 2 and 3. Ecological Communities that are adequately known, are rare but not threatened, or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5.
Assemblage	An assemblage is a defined group of biological entities.
Habitat	Habitat is defined as the areas in which an organism and/or assemblage of organisms lives. It includes the abiotic factors (e.g. substrate and topography), and the biotic factors.
Occurrence	A discrete example of an ecological community, separated from other examples of the same community by more than 20 meters of a different ecological community, an artificial surface or a totally destroyed community. By ensuring that every discrete occurrence is recognised and recorded future changes in status can be readily monitored.
Adequately surveyed	An ecological community that has been searched for thoroughly in most likely habitats, by relevant experts.
Community structure	The spatial organisation, construction and arrangement of the biological elements comprising a biological assemblage (eg. Eucalyptus salmonophloia woodland over scattered small shrubs over dense herbs; structure in a faunal assemblage could refer to trophic structure, eg. dominance by feeders on detritus as distinct from feeders on live plants).

Definitions and criteria for Presumed Totally Destroyed, Critically Endangered, Endangered and Vulnerable Ecological Communities.

Term	Description
Presumed Totally Destroyed (PD)	An ecological community that has been adequately searched for but for which no representative occurrences have been located. The community has been found to be totally destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future. An ecological community will be listed as presumed totally destroyed if there are no recent records of the community being extant and either of the following applies (A or B): A) Records within the last 50 years have not been confirmed despite thorough searches of known or likely habitats or B) All occurrences recorded within the last 50 years have since been destroyed
Critically Endangered (CR)	An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated. An ecological community will be listed as Critically Endangered when it has been adequately surveyed and is found to be facing an extremely high risk of total destruction in the immediate future. This will be determined on the basis of the best available information, by it meeting any one or more of the following criteria (A, B or C): A) The estimated geographic range, and/or total area occupied, and/or number of discrete occurrences since European settlement have been reduced by at least 90% and either or both of the following apply (i or ii): i) geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is imminent (within approximately 10 years); ii) modification throughout its range is continuing such that in the immediate future (within approximately 10 years) the community is unlikely to be capable of being substantially rehabilitated. B) Current distribution is limited, and one or more of the following apply (I, ii, iii) i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the immediate future (within approximately 10 years); ii) there are few occurrences, each of which is small and/or isolated and extremely vulnerable to known threatening processes; iii) there may be many occurrences but total area is very small and each occurrence is small and/or isolated and extremely vulnerable to known threatening processes . C) The ecological community exists only as highly modified occurrences that may be capable of being rehabilitated if such work begins in the immediate future (within approximately 10 years).
Endangered (EN)	An ecological community that has been adequately surveyed and found to have been subject to a major contraction in an area and/or was originally of limited distribution and is in danger of significant modification throughout it range or severe modification or destruction over most of its range in the near future An ecological community will be listed as Endangered when it has been adequately surveyed and is not Critically Endangered but is facing a very high risk of total destruction in the near future. This will be determined on the basis of the best available information by it meeting any one or more of the following criteria (A, B, or C): A) Geographic range, and/or total area occupied, and/or number of discrete occurrences have been reduced by at least 70% since European settlement and either or both of the following apply (i or ii): i) the estimated geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is likely in the short term future (within approximately 20 years); ii) modification throughout its range is continuing such that in the short term future (within approximately 20 years) the community is unlikely to be capable of being substantially restored or rehabilitated. B) Current distribution is limited, and one or more of the following apply (I, ii, iii)

	i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the short term future (within approximately 20 years); ii) There are few occurrences, each of which is small and/or isolated and all or most occurrences are very vulnerable to known threatening processes; iii) There may be many occurrences but total area is small and all or most occurrences are small and/or isolated and very vulnerable to known threatening processes. C) The ecological community exists only as very modified occurrences that may be capable of being substantially restored or rehabilitated if such work begins in the short-term future (within approximately 20 years).
Vulnerable (VU)	An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range. An ecological community will be listed as Vulnerable when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing a high risk of total destruction or significant modification in the medium (within approximately 50 years) to long-term future. This will be determined on the basis of the best available information by it meeting any one or more of the following criteria (A, B or C): A) The ecological community exists largely as modified occurrences that are likely to be capable of being substantially restored or rehabilitated. B) The ecological community may already be modified and would be vulnerable to threatening processes, is restricted in area and/or range and/or is only found at a few locations. C) The ecological community may be still widespread but is believed likely to move into a category of higher threat in the medium to long-term future because of existing or impending threatening processes.

Definitions and criteria for Priority Ecological Communities.

Term	Description
Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the Priority Ecological Community List under priorities 1, 2 and 3. These three categories are ranked in order of priority for survey and/or definition of the community. Ecological communities that are adequately known, and are rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5.	
Priority 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 ≤ 100ha). Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.
Priority 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 believed to be under immediate threat (within approximately 10 years) of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.
Priority 3 Poorly-known ecological communities	i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat or habitat destruction or degradation ii) communities known forma few widespread occurrences, which are either large or within significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or; iii) communities made up of large, and/or widespread occurrences, that may or not be represented in the reserve system bit are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stick, and inappropriate fire regimes Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them
Priority 4 Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring	a) Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands. b) Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. c) Ecological communities that have been removed from the list of threatened communities during the past five years
Priority 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 int eh community becoming threatened within five years

Introduced flora: Weed species are classified at both a state and federal level. The Australian Weeds Strategy identified 32 'Weeds of National Significance' (WONS), and although non-statutory, the weeds listed have the potential to substantially impact primary industry, environmental, and/or social values.

The Western Australian Department of Primary Industries regulates introduced flora under the *Biosecurity and Agriculture Management Act 2007*. Species listed under this Act are allocated one of three declared pest categories which define the required level of management. Declared pest species under this act can be assigned to one of three control categories, while prohibited organisms can be assigned as only a C1 or C2 control category.

Category	Definition
C1 Exclusion	Organisms that should be excluded from part or all of Western Australia: Pests that are not established in Western Australia and control measures are to be taken, in order to prevent them entering and establishing in the State.
C2 Eradication	Organisms that should be eradicated from part or all of Western Australia: Pests that are present in Western Australia in low enough numbers, or limited areas that their eradication is still a possibility.
C3 Management	Organisms that should have some form of management applied that will alleviate the harmful impact of the organism: Pests that 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 numbers or density or contain the spread of the pest.

Many of the commonly occurring weed species in the Pilbara region have been classified based on their potential for ecological impact and invasiveness traits (DPaW 2013; 2014)

Component	Description	Scale
Ecological impact	Impact of species within the region, from low impact (causes minimal disruption to ecological processes or loss of biodiversity) to high (causes acute disruption of ecological processes, dominates and/or significantly alters vegetation structure, composition and function of ecosystems).	Low
		Medium
		High
		Unknown
Invasiveness	Rate of spread of a weed in native vegetation, encompassing factors of establishment, reproduction and long distance dispersal (>100 m).	Slow
		Moderate
		Rapid
		Unknown

Weed prioritisation

A suite of introduced taxa have been identified by Parks and Wildlife as 'Priority Alerts' for the Pilbara region, including **Azadirachta indica, *Calotropis procera, *Chloris gayana, *Clitoria ternatea, *Cryptostegia grandiflora, *Cylindropuntia* spp.*, *Euphorbia tirucalli, *Jatropha gossypifolia, *Lantana camara, *Moringa oleifera, *Ricinus communis, *Schinus molle* var. *areira, *Vachellia nilotica* and **Washingtonia robusta*.

Appendix C Database Search Results

EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 25-Nov-2024

Summary
Details
- Matters of NES
- Other Matters Protected by the EPBC Act
- Extra Information

Caveat
Acknowledgements

Summary

Matters of National Environment Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	15
Listed Migratory Species:	9

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Lands:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	14
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	1
Regional Forest Agreements:	None
Nationally Important Wetlands:	2
EPBC Act Referrals:	42
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Listed Threatened Species		[Resource Information]
Status of Conservation Dependent and Extinct are not MNES under the EPBC Act. Number is the current name ID.		
Scientific Name	Threatened Category	Presence Text
BIRD		
Aphelocephala leucopsis Southern Whiteface [529]	Vulnerable	Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Erythrotriorchis radiatus Red Goshawk [942]	Endangered	Species or species habitat may occur within area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat known to occur within area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat likely to occur within area
Polytelis alexandrae Princess Parrot, Alexandra's Parrot [758]	Vulnerable	Species or species habitat likely to occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
MAMMAL		

Scientific Name	Threatened Category	Presence Text
Dasyurus hallucatus		
Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Macroderma gigas		
Ghost Bat [174]	Vulnerable	Species or species habitat known to occur within area
Macrotis lagotis		
Greater Bilby [282]	Vulnerable	Species or species habitat known to occur within area
Rhinonicteris aurantia (Pilbara form)		
Pilbara Leaf-nosed Bat [82790]	Vulnerable	Roosting known to occur within area
PLANT		
Thryptomene wittweri		
Mountain Thryptomene [16645]	Vulnerable	Species or species habitat may occur within area
REPTILE		
Liasis olivaceus barroni		
Pilbara Olive Python [66699]	Vulnerable	Species or species habitat likely to occur within area
Liopholis kintorei		
Great Desert Skink, Tjakura, Warrarna, Mulyamiji, Tjalapa, Nampu [83160]	Vulnerable	Species or species habitat may occur within area

Listed Migratory Species	[Resource Information]

Scientific Name	Threatened Category	Presence Text
Migratory Marine Birds		
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Hirundo rustica		
Barn Swallow [662]		Species or species habitat may occur within area
Motacilla cinerea		
Grey Wagtail [642]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Motacilla flava		
Yellow Wagtail [644]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata		
Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
Charadrius veredus		
Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
Scientific Name	Threatened Category	Presence Text
Bird		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat may occur within area
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area
Bubulcus ibis as Ardea ibis		
Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area

Scientific Name	Threatened Category	Presence Text
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area overfly marine area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area
Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425]		Species or species habitat known to occur within area overfly marine area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area overfly marine area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat may occur within area
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area overfly marine area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area overfly marine area

Scientific Name	Threatened Category	Presence Text
Rostratula australis as Rostratula benghalensis (sensu lato)		
Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area overfly marine area

Extra Information

State and Territory Reserves		[Resource Information]
Protected Area Name	Reserve Type	State
Karijini	National Park	WA

Nationally Important Wetlands	[Resource Information]
Wetland Name	State
Fortescue Marshes	WA
Karijini (Hamersley Range) Gorges	WA

EPBC Act Referrals			[Resource Information]
Title of referral	Reference	Referral Outcome	Assessment Status
East Hamersley Railway	2023/09542		Assessment
Iron ore mine, Hope Downs 2 Proposal	2021/9035		Assessment
Lamb Creek Iron Ore Project	2023/09754		Assessment
Mulga Downs Hub and Rail Spur	2022/09425		Assessment
Mulga Downs Iron Ore Mine	2022/09255		Assessment
Nyidinghu Iron Ore Mine	2023/09543		Assessment
Rhodes Ridge Iron Ore Project	2024/09786		Assessment
Controlled action			
Additional Rail Infrastructure between Herb Elliott Port Facility and Cloudbreak Mine Site	2010/5513	Controlled Action	Post-Approval
Baralaba Train Load Out and Rail Loop	2012/6548	Controlled Action	Post-Approval

Title of referral	Reference	Referral Outcome	Assessment Status
Controlled action			
Bonney Downs Rail Alignment	2011/5867	Controlled Action	Post-Approval
Brockman Railway	2011/5833	Controlled Action	Post-Approval
Christmas Creek Iron Ore Mine Expansion Project, East Pilbara, WA	2013/7055	Controlled Action	Post-Approval
Christmas Creek Water Management Scheme	2010/5706	Controlled Action	Post-Approval
Cloud Break Open Pit Iron Ore Mine	2005/2205	Controlled Action	Post-Approval
construction of iron ore mine & associated infrastructure	2013/6945	Controlled Action	Completed
Development of the Pilbara Iron One and Infrastructure Project	2010/5567	Controlled Action	Post-Approval
Expansion of Cloudbreak iron ore mine	2010/5696	Controlled Action	Post-Approval
FerrAus Pilbara Project - mine & Rail Pilbara Region WA	2011/6036	Controlled Action	Post-Approval
Iron ore mine expansion, West Angelas Revised Project	2021/8923	Controlled Action	Assessment Approach
Jinidi Iron Ore Mine	2012/6299	Controlled Action	Post-Approval
Koodaideri Iron Ore Mine & Infrastructure Project, WA	2012/6422	Controlled Action	Post-Approval
Marillana Iron Ore Project	2011/5892	Controlled Action	Post-Approval
Phil's Creek Iron Ore Project	2009/5107	Controlled Action	Post-Approval
Roy Hill to Port Hedland Rail Line and Associated Infrastructure	2010/5424	Controlled Action	Post-Approval
Solomon Iron Ore Project expansion, Pilbara, WA	2014/7275	Controlled Action	Post-Approval
Yandicoogina Junction South West and Oxbow Iron Ore Project	2011/5815	Controlled Action	Post-Approval
Not controlled action			
Baiting Efficacy Trial of Feral Cat Bait and PAPP Toxicant	2012/6381	Not Controlled Action	Completed

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action			
Development of iron ore resources in eastern Pilbara region, including port at P	2004/1562	Not Controlled Action	Completed
Development of the Hope Downs 4 Iron Ore Mine and Associated Infrastructure	2008/4636	Not Controlled Action	Completed
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed
Iron Valley Iron Ore Project	2012/6458	Not Controlled Action	Completed
Lamb Creek Iron Ore Project, East Pilbara, WA	2012/6666	Not Controlled Action	Completed
Pilbara Bulk Ore Transport System Project, WA	2016/7637	Not Controlled Action	Completed
Pilbara Transmission Project, Pilbara, WA	2018/8349	Not Controlled Action	Completed
Rail and Port Facilities	2001/474	Not Controlled Action	Completed
Railway Iron Ore Project, to develop and operate mine, plant and supporting infrastructure, Central	2009/5005	Not Controlled Action	Completed
Roy Hill Iron Ore Project	2008/4624	Not Controlled Action	Completed
Stage B of Pilbara Iron Ore and Infrastructure Project	2004/1897	Not Controlled Action	Completed
Yandicoogina Pocket and Billiard South, Iron ore mine, WA	2014/7343	Not Controlled Action	Completed
Not controlled action (particular manner)			
Additional Rail Infrastructure	2012/6314	Not Controlled Action (Particular Manner)	Post-Approval
Referral decision			
Baiting Efficiency of Feral cat bait and PAPP Toxicant	2012/6363	Referral Decision	Completed
Mulga Downs Iron Ore Mine	2021/9136	Referral Decision	Referral Publication

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data is available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance on the contents of this report.

3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions when time permits.

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

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

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded breeding sites; and
- seals which have only been mapped for breeding sites near the Australian continent

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

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

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

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

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

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

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Department of **Biodiversity, Conservation and Attractions**

GOVERNMENT OF WESTERN AUSTRALIA

Biodiversity and Conservation Science

CONDITIONS OF SUPPLY

Flora, fauna and ecological community data.

Conditions

1. **The data supplied may not be provided to third parties,** nor be used for any purpose other than for the project for which it has been originally provided for without the prior consent of the Executive Director, Biodiversity and Conservation Science, Department of Biodiversity, Conservation and Attractions (DBCA).
2. **Specific locality information for threatened and priority flora, fauna or ecological communities is confidential and should be treated as such.** Specific locality information for threatened species or communities may not be used in reports without the written permission of the Executive Director of Conservation Science, DBCA. Reports may only show generalised locations. Where necessary, specific locations may be given but species must not be identifiable. Species and Communities Branch is to be contacted for guidance if necessary.
3. **DBCA respects the privacy of private landowners.** Threatened and/or priority species or communities on private property should be treated in confidence. Contact with property owners based on inferences from this data must only be made through DBCA.
4. The development of **DBCA's WA Herbarium database was not designed for electronic mapping** (that is, GIS). The coordinates for each entry are not verified prior to being databased. Therefore, be aware when using this data in GIS software that some records may not plot to the locality description given with each collection.
5. **Acknowledgment of DBCA as the source of data is to be made in any published material** and cited as Department of Biodiversity, Conservation and Attractions (202[X]) Threatened and Priority Database Search for [search area] accessed on the [date of search]. Prepared by the Species and Communities program for [Requesters name and company] for [purpose of search].
6. DBCA may request (and be provided with) a copy of any publication, research or communiques based on this data. **DBCA retains the right to refuse an unreasonable data request.**

Disclaimers

While reasonable effort has been made to prevent errors and omissions in the data, they may nevertheless be present. DBCA accepts no responsibility for this. Databases are subject to continual updating and amendment and such the risk of change is accepted by the user. Receiving organisations should engage appropriate scientific expertise to survey the area of interest. Supplied data is not necessarily a comprehensive representation of the threatened species or communities in the area. Rather, comprehensiveness is dependent on the extent of study in a specified area.

CONSERVATION CATEGORY DEFINITIONS

For Western Australian Fauna and Flora

Threatened, Extinct and Specially Protected fauna or flora[1] are species[2] which have been adequately searched for and are deemed to be, in the wild, threatened, extinct or in need of special protection, and have been gazetted as such.

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

T Threatened species

Listed by order of the Minister as Threatened in the category of critically endangered, endangered or vulnerable under section 19(1), or is a rediscovered species to be regarded as threatened species under section 26(2) of the *Biodiversity Conservation Act 2016* (BC Act).

Threatened fauna is the species of fauna that are listed as critically endangered, endangered or vulnerable threatened species.

Threatened flora is the species of flora that are listed as critically endangered, endangered or vulnerable threatened species.

The assessment of the conservation status of threatened species is in accordance with the BC Act listing criteria and the requirements of Ministerial Guideline Number 1 and Ministerial Guideline Number 2 that adopts the use of the International Union for Conservation of Nature (IUCN) Red List of Threatened Species Categories and Criteria[3], and is based on the national distribution of the species.

CR Critically endangered species

Threatened species considered to be "*facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines*".

Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines.

Examples of use:

- The western ringtail possum (*Pseudocheirus occidentalis*) is listed as a critically endangered threatened species under the *Biodiversity Conservation Act 2016.*
- Western ringtail possum is listed as critically endangered under the *Biodiversity Conservation Act 2016.*
- Listing reference in a table: column heading: BC Act, row text: CR.

EN Endangered species

Threatened species considered to be "*facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines*".

Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines.

Examples of use:

- *Caladenia hopperiana* is listed as an endangered threatened species under the *Biodiversity Conservation Act 2016.*
- *Caladenia hopperiana* is listed as endangered under the *Biodiversity Conservation Act 2016.*
- Listing reference in a table: column heading: BC Act, row text: EN.

VU Vulnerable species

Threatened species considered to be "*facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with criteria set out in the ministerial guidelines*".

Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines.

Examples of use:

- The forest red-tailed black cockatoo (*Calyptorhynchus banksii naso*) is listed as a vulnerable threatened species under the *Biodiversity Conservation Act 2016.*
- Forest red-tailed black cockatoo is listed as vulnerable under the *Biodiversity Conservation Act 2016.*
- Listing reference in a table: column heading: BC Act, row text: VU.

Extinct species

Listed by order of the Minister as extinct under section 23(1) of the BC Act as extinct or extinct in the wild.

EX Extinct species

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

Examples of use:

- *Acacia kingiana* is listed as an extinct species under the *Biodiversity Conservation Act 2016.*
- *Acacia kingiana* is listed as extinct under the *Biodiversity Conservation Act 2016.*
- Listing reference in a table: column heading: BC Act, row text: EX.

EW Extinct in the wild species

Species that *"is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form*", and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act).

Currently there are no fauna or flora species listed as extinct in the wild.

SP Specially protected species

Listed by order of the Minister as specially protected under section 13(1) of the BC Act. Meeting one or more of the following categories: species of special conservation interest; migratory species; cetaceans; species subject to international agreement; or species otherwise in need of special protection.

Species that are listed as threatened species (critically endangered, endangered, or vulnerable) or extinct species under the BC Act cannot also be listed as specially protected species.

MI Migratory species

Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).

Migratory species include birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA)[4], China (CAMBA)[5] or The Republic of Korea (ROKAMBA)[6], and fauna subject to the *Convention on the Conservation of Migratory Species of Wild Animals* (Bonn Convention)[7], an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.

Examples of use:

- The wedge-tailed shearwater (*Ardenna pacifica*) is listed as a specially protected migratory species under the *Biodiversity Conservation Act 2016.*
- Wedge-tailed shearwater is listed as migratory under the *Biodiversity Conservation Act 2016.*
- Listing reference in a table: column heading: BC Act, row text: MI.

CD **Species of special conservation interest (conservation dependent)**

Species of special conservation need that are dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened, and listing is otherwise in accordance with the ministerial guidelines (section 14 of the BC Act).

Currently only fauna are listed as species of special conservation interest.

Examples of use:

- The wambenger, south-western brush-tailed phascogale (*Phascogale tapoatafa wambenger*) is listed as a specially protected species of special conservation interest under the *Biodiversity Conservation Act 2016.*
- Wambenger, south-western brush-tailed phascogale, is listed as conservation dependent under the *Biodiversity Conservation Act 2016.*
- Listing reference in a table: column heading: BC Act, row text: CD.

OS **Species otherwise in need of special protection (other specially protected)**

Species otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18 of the BC Act).

Currently only fauna are listed as species otherwise in need of special protection.

Examples of use:

- The dugong (*Dugong dugon*) is listed as a specially protected species otherwise in need of special protection under the *Biodiversity Conservation Act 2016.*
- Dugon is listed as other specially protected fauna under the *Biodiversity Conservation Act 2016.*
- Listing reference in a table: column heading: BC Act, row text: OS.

P **Priority species**

Priority is not a listing category under the BC Act. The Priority Flora and Fauna lists are maintained by the department and are published on the department's website.

All fauna and flora are protected in WA following the provisions in Part 10 of the BC Act. The protection applies even when a species is not listed as threatened or specially protected, and regardless of land tenure (State managed land (Crown land), private land, or Commonwealth land).

Species that may possibly be threatened species that do not meet the criteria for listing under the BC Act because of insufficient survey or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of prioritisation for survey and evaluation of conservation status so that consideration can be given to potential listing as threatened.

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 conservation dependent or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

Assessment of priority status is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

1 **Priority 1: Poorly-known species - known from few locations, none on conservation lands**

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, for example, agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation.

Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements for threatened listing and appear to be under immediate threat from known threatening processes. These species are in urgent need of further survey.

Examples of use:

- *Borya stenophylla* is listed as a Priority 1 species by the Department of Biodiversity, Conservation and Attractions.
- *Borya stenophylla* is listed as Priority 1 on the DBCA Priority Flora List.
- Listing reference in a table: column heading: DBCA, row text: P1.

2 Priority 2: Poorly-known species - known from few locations, some on conservation lands

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, for example, national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation.

Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements for threatened listing and appear to be under threat from known threatening processes. These species are in urgent need of further survey.

Examples of use:

- *Caladenia nivalis* is listed as a Priority 2 species by the Department of Biodiversity, Conservation and Attractions.
- *Caladenia nivalis* is listed as Priority 2 on the DBCA Priority Flora List.
- Listing reference in a table: column heading: DBCA, row text: P2.

3 Priority 3: Poorly-known species - known from several locations

Species that are known from several locations and the species does not appear to be under imminent threat or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat.

Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. These species need further survey.

Examples of use:

- *Acacia nitidula* is listed as a Priority 3 species by the Department of Biodiversity, Conservation and Attractions.
- *Acacia nitidula* is listed as Priority 3 on the DBCA Priority Flora List.
- Listing reference in a table: column heading: DBCA, row text: P3.

4 Priority 4: Rare, Near Threatened and other species in need of monitoring

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

(b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as a conservation dependent specially protected species.

(c) Species that have been removed from the list of threatened species or lists of conservation dependent or other specially protected species, during the past five years for reasons other than taxonomy.

(d) Other species in need of monitoring.

Examples of use:

- *Banksia aculeata* is listed as a Priority 4 species by the Department of Biodiversity, Conservation and Attractions.
- *Banksia aculeata* is listed as Priority 4 on the DBCA Priority Flora List.
- Listing reference in a table: column heading: DBCA, row text: P4.

[1] The definition of flora includes algae, fungi, and lichens.

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

[3] Western Australia has assigned species to threat categories using the *IUCN Red List of Threatened Species Categories and Criteria* since 1996 (referencing all criteria).

[4] JAMBA - first included in the WA migratory species list in 1980.

[5] CAMBA - first included in the WA migratory species list in 2010.

[6] ROKAMBA - first included in the WA migratory species list in 2010.

[7] Bonn Convention (Birds) - first included in the WA migratory species list in 2015.

Department of **Biodiversity, Conservation and Attractions**

GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Ecological Community buffers and boundaries in WA

Citation

Title: Threatened and Priority Ecological Community buffers and boundaries in WA

Custodian: Department of Biodiversity, Conservation and Attractions

Description

Abstract: Ecological communities throughout WA that are 'Presumed Totally Destroyed', 'Critically Endangered', 'Endangered', 'Vulnerable', 'Priority 1-5', 'Lower Risk' and 'Not evaluated'. Communities are based on various life-forms including plants, invertebrates and micro-organisms.

Geographical Bounding Box

North: -14.788854

South: -35.005719

East: 128.870214

West: 113.765525

Data Currency and Status

Beginning Date: 01/01/1994

Ending Date: present

Maintenance/Update: Ongoing

Access

Stored Data Format: ESRI shapefile

Coordinate System: GCS_GDA_1994

Access Constraints: Digital data is only available with written permission of the custodian.

Data Quality

Positional Accuracy: Point location data within occurrences generally taken from accurate GPS location.

Attribute Accuracy: Not documented.

Logical Consistency: Not documented.

Completeness: Information on specific communities was obtained from regional, subregional or specific habitat surveys of floristic communities, invertebrate communities, wetland assemblages and communities of micro-organisms.

Attributes List:

NAME	DESCRIPTION
BDY_ID	Associated boundary polygon unique identifier
OCC_UNIQUE	Unique occurrence identifier
COM_ID	Shortened community name identifier
COM_NAME	Community name
STATE_CATE	State listed category of threat
COMM_CATE	Commonwealth listed category of threat
S_ID_COUNT	Number of Site IDs within a buffer
FIRST_S_ID	First site identifier
LAST_S_ID	Last site identifier
BUFFER	Buffer radius from site ID or boundary in metres

General Information:

Boundaries

Mapped boundary data is provided, where possible.

- Not all occurrences have mapped boundaries.
- The boundary of an ecological community **does not** imply the area that must be considered for environmental impact assessment. Rather, impact will depend on the community type and the nature of the impact.
- Boundaries are often approximate and ground truthing is required.

Buffers

A buffer is included around each occurrence of a TEC or PEC to ensure:

- that nearby developments with **potential** for impact are considered.
- for ecological communities driven by hydrological processes, buffers are applied to ensure essential ecological functions are maintained and/or potential impact of nearby developments can be considered.
- mapping inaccuracies are accounted for.

Contact Information

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Commonwealth Listed TECs

Some ecological communities are also listed by the Commonwealth government as threatened under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). These ecological communities may spatially overlap with those listed under the State's Biodiversity Conservation Act 2016. With permission, DBCA provides data on behalf of the Commonwealth to support management outcomes. Ground-truthing is required to verify that a site meets the diagnostic characteristics, minimum condition and size threshold to be deemed the described TEC.

Mapping for the Commonwealth TECs is based on the Commonwealth's 'likely to occur' areas and represent the broad-scale vegetation map units most likely to contain the described ecological community. The ecological community may, however, occur outside of the 'likely to occur' areas, within the broader 'may occur' boundary (guidance found in the Commonwealth Conservation Advices). Therefore, the mapping represents the indicative present distribution of the ecological communities.

Commonwealth listed TECs include:

- Banksia woodlands of the Swan Coastal Plain, 'Banksia Woodlands' (listed as an Endangered TEC under the EPBC Act on 16 September 2016)
- Clay Pans of the Swan Coastal Plain (listed as a Critically Endangered TEC under the EPBC Act 27 March 2012)
- Proteaceae Dominated Kwongkan Shrublands of the southeast coastal floristic province of Western Australia, 'Kwongkan' (was listed as an Endangered TEC under the EPBC Act 1 February 2014)
- Eucalypt Woodlands of the Western Australian Wheatbelt, 'Wheatbelt Woodlands' (listed as a Critically Endangered TEC under the EPBC Act on 4 December 2015)
- Tuart (*Eucalyptus gomphocephala*) Woodlands and Forests of the Swan Coastal Plain ecological community, 'Tuart woodlands' (listed as a Critically Endangered TEC under the EPBC Act on 4 July 2019)
- Empodisma peatlands of southwestern Australia (listed as an Endangered TEC under the EPBC Act on 7 September 2023)
- Subtropical and Temperate Coastal Saltmarsh, 'Coastal Saltmarsh' (listed as a Vulnerable TEC under the EPBC Act on 10 August 2013)
- Honeymyrtle shrubland on limestone ridges of the Swan Coastal Plain Bioregion (listed as a Critically Endangered TEC under the EPBC Act on 15 November 2023).

Appendix D NVIS Vegetation and Structural Classification and Vegetation Condition Scales

Table D-1: Vegetation structural classification.

Stratum	70-100% Cover	30-70% Cover	10-30% Cover	2-10% Cover	<2% Cover
Trees > 30 m	Tall closed forest	Tall open Forest	Tall woodland	Tall open woodland	Scattered tall trees
Trees 10-30 m	Closed forest	Open forest	Woodland	Open woodland	Scattered trees
Trees < 10 m	Low closed forest	Low open forest	Low woodland	Low open woodland	Scattered low trees
Shrubs > 2 m	Tall closed scrub	Tall open scrub	Tall shrubland	Tall open shrubland	Scattered tall shrubs
Shrubs 1-2 m	Closed heath	Open heath	Shrubland	Open shrubland	Scattered shrubs
Shrubs < 1 m	Low closed heath	Low open heath	Low shrubland	Low open shrubland	Scattered low shrubs
Hummock grasses	Closed hummock grassland	Hummock grassland	Open hummock grassland	Very open hummock grassland	Scattered hummock grasses
Grasses, sedges, herbs	Closed tussock grassland/ sedgeland/ herbland	Tussock grassland/ sedgeland/ herbland	Open tussock grassland/ sedgeland/ herbland	Very open tussock grassland/ sedgeland/ herbland	Scattered tussock grasses / sedges / herbs

Based on Muir (1977) and Aplin (1979) modification of the vegetation classification system of Specht (1970).

Aplin T.E.H. (1979). The Flora. Chapter 3 In O'Brien, B.J. (ed.). Environment and Science. University of Western Australia Press.

Muir B.G. (1977). Biological Survey of the Western Australian Wheatbelt. Part II: Vegetation and habitat of Bendering Reserve. Records of the Western Australian Museum, Suppl. No. 3.

Specht R.L. (1970). Vegetation. In: The Australian Environment. 4th edn (Ed. G.W. Leeper). Melbourne.

Table D-2: Vegetation condition scale.

Score	Description	Detailed Definition
1.0	Excellent	Pristine or nearly so; no obvious signs of damage caused by the activities of humans of European descent.
0.8	Very Good	Some relatively slight signs of damage caused by recent human activity. 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.
0.6	Good	More obvious signs of damage caused by the activities of humans of European descent, including some obvious impact on the vegetation structure such as that caused by low levels of grazing or by selective logging. The presence of some relatively non-aggressive weeds, plus some more aggressive species such as **Cenchrus* spp.
0.4	Poor	Still retains basic vegetation structure or ability to regenerate to it after very obvious impacts of activities of humans of European descent, such as grazing, partial clearing (chaining) or frequent fires. The presence of some relatively non-aggressive weeds, plus some more aggressive species such as **Cenchrus* spp.
0.2	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 including very aggressive species.
0.1	Completely Degraded	Areas that are completely or almost completely without native species in the structure of their vegetation; i.e. areas that are cleared or 'parkland cleared' with their flora comprising weed or crop species with isolated native trees or shrubs.

Adapted from Trudgen (1988) as presented in EPA Technical Guidance (2016a). Scores align with the Rio Tinto Data Standards (2025b) numerical scale.

Appendix E Significant Flora Likelihood of Occurence Assessment

Species name	Growth habit	Broad habitat	Flower colour and flowering period	Distance to nearest record (km)	Data source (s)	Pre-survey Likelihood of Occurrence	Post survey Likelihood of Occurrence
THREATENED (BC ACT)							
Synostemon hamersleyensis (En)	Small perennial cladodinous subshrub with wirey light green stems and a waxy cuticle	Inhabits breakaway formations and rock outcrops either side of incised gully systems	Flowers in spring and occasionally in summer.	0 km	RTIO, ALA, DBCA, PMST	**Previously recorded within the Survey Area**	**Recorded during the Stantec survey**
Thryptomene wittweri (Vu)	Spreading or rounded shrub, 0.5-1.5(-2.1) m high.	Skeletal red stony soils. Breakaways, stony creek beds. Associated with high mountain peaks.	Flower cream- white in April, Jul or August.	65 km	PMST	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is approximately 65 km from the Survey Area.	**Unlikely:** The Survey Area broadly contains suitable habitat however the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, no records occur within 65 km.
PRIORITY 1							
Barbula ehrenbergii	Moss-like	Gorge walls.	No information available	22.05 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is over 20 km from the Survey Area.	**Unlikely:** The Survey Area broadly contains suitable habitat however the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, no records occur within 20 km.
Calotis squamigera	Procumbent annual, herb	Very gently undulating plain. Red-brown loam with a mantle of gravel and small rock	Flowers pale yellow, bracts not opening widely, fruit pale green becoming brownish on maturing. July	6.6 km	WAHERB	**Likely:** The species has been recorded in very close proximity to the Survey Area and may contain suitable habitat.	**Possible:** Small portions of the Survey Area contain some potentially suitable habitat, and there is a previous record in close proximity to the Survey Area. If present, this annual species may not have been readily detectable due to the dry seasonal conditions.
Dipteracanthus chichesterensis	Small perennial shrub to 0.25 m tall.	Margins of creekline on cracking clay basalt tablelands	Mauve / Pink	36.58 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is over 35 km from the Survey Area.	**Unlikely:** The Survey Area does not contain cracking clay habitat, and the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, no records occur within 35 km.
Gompholobium sp. Roy Hill (G. Buller ATF08 AQ14)	Shrub to 0.4 m.	Clay loam undulating hills and rocky hills.	No information available	35.32 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is 35 km from the Survey Area.	**Unlikely:** The Survey Area broadly contains suitable habitat however the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, no records occur within 35 km.
Hibiscus sp. Mt Brockman (E. Thoma ET 1354)	Erect perennial shrub	Steep deeply incised drainage gullies, base of breakaways or slate like rock outcrops fringing steep incised gullies	Corolla mauve or purple, 45-48 mm long, glabrous	35.10 km	ALA,	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is 35 km from the Survey Area.	**Unlikely:** The Survey Area broadly contains suitable habitat however this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, no records occur within 35 km.
Hibiscus sp. Mulga Downs (S. Hitchcock SH 638)	Sub-shrub to shrub 0.1 - 0.2 m high.	Stony plain with red clay-loam over ironstone.	No information available	8.07 km	WAHERB	**Likely:** The species has been recorded in very close proximity to the Survey Area and may contain suitable habitat.	**Possible:** Small portions of the Survey Area contain some potentially suitable habitat, and there is a previous record in close proximity to the Survey Area. If present, this small-growing species may not have been readily detectable due to the dry seasonal conditions.
Lindernia sp. Pilbara (M.N. Lyons & L. Lewis FV 1069)	Small shrub	Edge of claypans and waterbodies.	No information available	48.26 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a large distance from the Survey Area.	**Unlikely:** The Survey Area is not considered to contain suitable habitat, and the nearest previous record is a large distance from the Survey Area.
Myriocephalus scalpellus	Semi-erect herb, 0.03-0.08 m high.	Clay. Depression on flood plain.	No information available	49.28 km	DBCA TPRF, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a large distance from the Survey Area.	**Unlikely:** The Survey Area is not considered to contain suitable habitat, and the nearest previous record is a large distance from the Survey Area.

Species name	Growth habit	Broad habitat	Flower colour and flowering period	Distance to nearest record (km)	Data source (s)	Pre-survey Likelihood of Occurrence	Post survey Likelihood of Occurrence
Rorippa sp. Fortescue Valley (M.N. Lyons & R.A. Coppen FV 0760)	Herb	Riparian slopes, at waters' edge	No information available	10.01 km	WAHERB	**Likely:** The species has been recorded within approximately 10 km from the Survey Area and may contain suitable habitat	**Unlikely:** The Survey Area is not considered to contain suitable habitat, and the species has not been recorded during this survey or previous surveys within the Survey Area
Samolus sp. Fortescue Marsh (A. Markey & R. Coppen FM 9702)	Shrub to 1.5 m high.	Well drained, red clay loam soils, marshlands.	No information available	11.57 km	WAHERB	**Possible:** the Survey Area may contain suitable habitat; however, the nearest previous record is within 12 km from the Survey Area.	**Unlikely:** The Survey Area is not considered to contain suitable habitat, and this perennial species has not been recorded during this survey or previous surveys within the Survey Area.
Tecticornia globulifera	Perennial shrub to 0.5 m high	Saline areas	Green or pink to red	8.54 km	DBCA TPRF, WAHERB	**Possible:** the Survey Area may contain suitable habitat; and the nearest previous record is within 10 km of the Survey Area.	**Unlikely:** The Survey Area is not considered to contain suitable habitat, and this perennial species has not been recorded during this survey or previous surveys within the Survey Area.
Tecticornia sp. Christmas Creek (K.A. Shepherd & T. Colmer et al. KS 1063)	Perennial shrubs to 0.8 m high	Saline areas	Red	31.74 km	WAHERB	**Unlikely:** Although the Survey Area may contain suitable habitat, the nearest record of the species is greater than 30 km from the Survey Area.	**Unlikely:** The Survey Area is not considered to contain suitable habitat, and this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest previous record is a moderate distance from the Survey Area.
Triodia veniciae	Perennial hummock grass	Shale, low rocky hill, crests and slopes, clay soils	No information available	35.32 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is 35 km from the Survey Area.	**Unlikely:** Although the Survey Area contains suitable habitat, this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is greater than 35 km from the Survey Area.
PRIOIRITY 2							
Adiantum capillus-veneris	Fern	Moist sheltered sites in gorges and on cliff walls	No information available	22.05 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however the nearest previous record is greater than 20 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat (such as Koodaideri Spring), the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is greater than 20 km from the Survey Area.
Arthropodium vanleeuwenii	Perennial herb 0.9 m high	Growing above 900 m on south-facing hillslopes of Brockman Iron Formation. Often found growing under *Triodia* sp. and occasionally under *Themeda* sp., very rarely growing in the open	No information available	39.79 km	WAHERB	**Unlikely:** Although the Survey Area may contain suitable habitat, the nearest record of the species is approximately 40 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is approximately 40 km from the Survey Area.
Cladium procerum	Densely tufted perennial, grass-like or herb (sedge), 2 m high.	Perennial pools	Brown. May to November	15.44 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat (such as Koodaideri Spring), the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is greater than 15 km from the Survey Area.
Hibiscus sp. Gurinbiddy Range (M.E. Trudgen MET 15708)	Erect perennial shrub	Creeklines/drainage lines, incised gully high in rocky range, Loamy skeletal soils	Pink or Mauve corolla with magenta throat. March, April, May, June, August, October	29.79 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is approximately 30 km from the Survey Area from the Survey Area.	**Unlikely:** Although the Survey Area contains suitable habitat, this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is approximately 30 km from the Survey Area.

Species name	Growth habit	Broad habitat	Flower colour and flowering period	Distance to nearest record (km)	Data source (s)	Pre-survey Likelihood of Occurrence	Post survey Likelihood of Occurrence
Kohautia australiensis	Erect sparsely or much-branched annual, herb, 0.1-0.5 m high.	Calcrete hills and plains	Blue.	16.85 km	ALA, WAHERB, RTIO	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is greater than 15 km from the Survey Area.	**Possible:** The Survey Area may contain some potentially suitable habitat, and there is a previous record in moderate proximity to the Survey Area However, this species has not been recorded during this survey or previous surveys. If present, this small-growing annual species may not have been readily detectable due to the dry seasonal conditions.
Neptunia longipila	Annual prostrate herb.	Red-brown cracking clays	No information available	40.60 km	WAHERB	**Unlikely:** The Survey Area is unlikely to contain suitable habitat, and the nearest record of the species is greater than 40 km from the Survey Area.	**Unlikely:** The Survey Area does not contain suitable habitat, and the nearest record of the species is greater than 40 km from the Survey Area.
Paspalidium retiglume	Tufted annual, grass, 0.1-0.5 m high	Clay	April	42.57 km	WAHERB	**Unlikely:** Although the Survey Area may contain suitable habitat, the nearest record of the species is greater than 40 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, the nearest record of the species is greater than 40 km from the Survey Area.
Rhodanthe frenchii	Upright annual, herb, to 0.35 m high.	Stony hills, rocky river banks & outcrops	Yellow. August to October	17.82 km	RTIO	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is greater than 15 km from the Survey Area.	**Possible:** The Survey Area may contain some potentially suitable habitat, and there is a previous record in moderate proximity to the Survey Area. If present, this small-growing annual species may not have been readily detectable due to the dry seasonal conditions. Furthermore, the survey was conducted prior to its known flowering times
Teucrium pilbaranum	Upright shrub	Crab hole plain in a river floodplain, margin of calcrete table	White. May or September	10.60 km	WAHERB	**Unlikely:** The Survey Area is unlikely to contain suitable habitat and the nearest record of the species is greater than 10 km from the Survey Area.	**Unlikely:** The Survey Area is unlikely to contain suitable habitat, and the species has not been recorded during this survey or previous surveys within the Survey Area.
Triodia karijini	Wispy hummock grass 0.6-0.9 m.	Steep slopes, upper hillslopes of dark grey or orange - brown loam soil.	No information available	37.65 km	WAHERB	**Unlikely:** The Survey Area may contain suitable habitat. However, the nearest record of the species is greater than 35 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is greater than 35 km from the Survey Area.
PRIORITY 3							
Abutilon sp. Pritzelianum (S. van Leeuwen 5095)	Shrub/Herb (Undefined)	Sandy plain with red/brown sand	Yellow, April, July, August, September	36.26 km	WAHERB	**Unlikely:** The Survey Area may contain suitable habitat. However, the nearest record of the species is greater than 35 km from the Survey Area.	**Unlikely:** Small portions of the Survey Area may contain suitable habitat; however, this species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is greater than 35 km from the Survey Area.
Acacia effusa	Low, dense, spreading, somewhat viscid shrub, 0.3-1 m high	Stony red loam. Scree slopes of low ranges	Yellow. May to August	32.19 km	DBCA TPFL, WAHERB	**Unlikely:** The Survey Area may contain suitable habitat. However, the nearest record of the species is greater than 30 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record is greater than 30 km from the Survey Area.
Acacia subtiliformis	Spindly, slender, erect shrub, to 3.5 m	On rocky calcrete plateau	Yellow, June	11.56 km	ALA, DBCA TPFL, RTIO, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is greater than 10 km from the Survey Area.

Species name	Growth habit	Broad habitat	Flower colour and flowering period	Distance to nearest record (km)	Data source (s)	Pre-survey Likelihood of Occurrence	Post survey Likelihood of Occurrence
Amaranthus centralis	Herb/Shrub (undefined)	Plain/Alluvial flat, Granite outcrop. Silty sand amongst granite boulders	Red stem, flowers and fruit in clumps, long petioles. May	17.16 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** Small portions of the Survey Area may contain suitable habitat; however, this species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is a moderate distance from the Survey Area.
Ampelopteris prolifera	Rhizomatous, perennial, herb (fern)	Near water or in wet ground. Gully with drainage line and area at base of cliff at head of gorge, low in landscape, gentle slope, boulder scree with lots of cobbles in creek, very damp soil, semi-permanent pool and seepages from cliff face.	No information available	22.05 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat (such as Koodaideri Spring), the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is greater than 20 km from the Survey Area.
Aristida jerichoensis var. *subspinulifera*	Compactly tufted perennial, grass-like or herb, 0.3-0.8 m high	Flat to open depressions, hardpan plains	No information available	8.92 km	DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat, and the nearest previous record is within 10 km of the Survey Area.	**Possible:** Small portions of the Survey Area contain some potentially suitable habitat, and there is a previous record within 10 km of the Survey Area.
Aristida lazaridis	Perennial tussock grass, culms 0.4 m to 1.4 m	*Eucalyptus* communities on red earths, sandy soils and loams.	April	16.16 km	DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is greater than 15 km from the Survey Area.
Atriplex flabelliformis	Perennial shrub	Clay loam, loam. Saline flats or marshes.	No information available	8.63 km	ALA, WAHERB, RTIO	**Possible:** The Survey Area may contain suitable habitat, and the nearest previous record is within 10 km of the Survey Area.	**Unlikely:** The Survey Area is not considered to contain suitable habitat, and the species has not been recorded during this survey or previous surveys within the Survey Area.
Dampiera metallorum	Rounded, multistemmed perennial, herb, to 0.5 m high.	Skeletal red-brown gravelly soil over banded ironstone. Steep slopes, summits of hills.	Blue, Apr or Jun to Oct.	5.87 km	ALA, DBCA TPFL. WAHERB	**Likely:** The species has been recorded in very close proximity to the Survey Area and may contain suitable habitat.	**Possible:** The Survey Area contains suitable habitat, and the species has been recorded in very close proximity to the Survey Area. However, this perennial species has not been recorded within the Survey Area during this survey or previous surveys.
Dicladanthera glabra	Spreading perennial, herb or shrub	Alluvium. Along watercourses, near rock pools	No information available	0.95 km	ALA, WAHERB	**Likely:** The species has been recorded in very close proximity to the Survey Area and may contain suitable habitat.	**Likely:** The species has been recorded in very close proximity to the Survey Area, and suitable habitat is likely to occur within the Survey Area. The suitable habitat is considered to be within the portions of the Survey Area where access was not permitted.
Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479*)*	Spreading annual herb	Cracking clay, basalt. Gently undulating plain with large surface rocks, flat crabholed plain	Petals blue-mauve. May, June, September	18.48 km	RTIO , WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** The Survey Area does not contain cracking clay or crabhole clay habitat, and the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, no records occur within 15 km.

Species name	Growth habit	Broad habitat	Flower colour and flowering period	Distance to nearest record (km)	Data source (s)	Pre-survey Likelihood of Occurrence	Post survey Likelihood of Occurrence
Dysphania congestiflora	Erect annual herb to 0.09 m tall	Saline clay flats and marshlands. Flats on margins of saline flood plain and lake bed. Deep, uniform, saline, light-medium clays over hardpan (calcrete).	No information available	8.72 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat, and the nearest previous record is within 10 km of the Survey Area.	**Unlikely:** The Survey Area does not contain saline flats or marshland habitat, and the species has not been recorded during this survey or previous surveys within the Survey Area.
Eleocharis papillosa	Annual, herb.	Red clay over granite, open clay flats. Claypans and salty depressions.	Brown, November.	8.07 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat, and the nearest previous record is within 10 km of the Survey Area.	**Unlikely:** The Survey Area does not contain notable clay flats habitat or salty depressions, and the species has not been recorded during this survey or previous surveys within the Survey Area
Eragrostis sp. Erect spikelets (P.K. Latz 2122)	Tufted erect perennial grass to 0.3 m high.	Sandy, semi-saline creek levees.	No information available	9.84 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat, and the nearest previous record is within 10 km of the Survey Area.	**Unlikely:** The Survey Area is not considered to contain suitable habitat, and this perennial species has not been recorded during this survey or previous surveys within the Survey Area.
Eremophila naaykensii	Erect shrub, 1 – 2 m tall.	Summit of hill, high in landscape, steep rock slopes and scree, skeletal brown-red soil over massive, banded ironstone of the Brockman Iron Formation. Rocky hill slopes, hill crests and upper hill slopes.	No information available	0 km	RTIO, WAHERB	**Previously recorded within the Survey Area.**	**Previously recorded within the Survey Area.**
Eremophila pusilliflora	Compact shrub to 0.5 m high.	Open red brown hard pan plain with very shallow soil. Flat land with skeletal red brown loam or sandy loam or clay loam over ironstone. Decomposing granite flat. Broad drainage line. Open depression. Seasonally inundated	Purple or pale yellow-cream to pinky-yellow with red suffusions. March, April, July	12.93 km	WAHERB	**Likely:** The Survey Area may contain suitable habitat and the nearest previous record is a moderate distance from the Survey Area.	**Possible:** Small portions of the Survey Area contain some potentially suitable habitat, and there is a previous record located a moderate distance from the Survey Area. However, this perennial species has not been recorded during this survey or previous surveys.
Eremophila spongiocarpa	Perennial shrub	Weakly saline alluvial plain on margins of marsh	White, May or September	3.23 km	ALA, DBCA TPFL, RTIO WAHERB	**Likely:** The species has been recorded in very close proximity to the Survey Area and may contain suitable habitat.	**Possible:** Small portions of the Survey Area contain some potentially suitable habitat, and there is a previous record in very close proximity to the Survey Area. However, this perennial species has not been recorded within the Survey Area during this survey or previous surveys within the Survey Area.
Euphorbia australis var. *glabra*	Annual prostrate herb.	Moderate drainage, broad flat/slightly undulating plain. Redish-brown creeklines, claypans and cracking clays. Low in the landscape on alluvial cracking clay or loamy soil, gritty with ironstone fragments.	Cynthia lobes red. May	11.68 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** The Survey Area does not contain cracking clay habitat, and the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is a moderate distance from the Survey Area.
Euphorbia inappendiculata var. *inappendiculata*	Prostrate annual herb	Flat/Plain, Cracking clay floodplain. Clay soils. Red loamy depressions interspersed with quartzite on a plain.	Cyathia tiny with extremely small (red) lobes. April, August	11.24 km	DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** The Survey Area does not contain cracking clay habitat, and the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is a moderate distance from the Survey Area.

Species name	Growth habit	Broad habitat	Flower colour and flowering period	Distance to nearest record (km)	Data source (s)	Pre-survey Likelihood of Occurrence	Post survey Likelihood of Occurrence
Euphorbia inappendiculata var. *queenslandica*	Annual prostrate herb.	Clay flats, cracking clay soils. Co-occurs with tussock grasslands.	Cynthia red to deep purple. July	13.73 km	DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** The Survey Area does not contain cracking clay habitat, and the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is a moderate distance from the Survey Area.
Euphorbia stevenii	Somewhat succulent perennial, herb, 0.1-0.5 m high.	Clay, sandy soils	Cyathia lobes dull orange, turning dull red (at fruiting stage).	39.45 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat. However, the nearest record of the species is approximately 40 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is approximately 40 km from the Survey Area.
Fimbristylis sieberiana	Shortly rhizomatous, tufted perennial, grass-like or herb (sedge)	Mud, skeletal soil pockets. Pool edges, sandstone cliffs	No information available	14.91 km	DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat (such as Koodaideri Spring), this species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is a moderate distance from the Survey Area.
Glycine falcata	Mat-forming perennial, herb	Black clayey sand. Along drainage depressions in crabhole plains on river floodplains.	Blue-purple. May or June	13.54 km	ALA, DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** The Survey Area does not contain crabhole habitat or black soil, and the species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is a moderate distance from the Survey Area.
Goodenia lyrata	Prostrate herb with lyrate leaves	Red sandy loam. Near claypans	Yellow. August	43.74 km	DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat. However, the nearest record of the species is greater than 40 km from the Survey Area.	**Unlikely:** Small portions of the Survey Area contain some potentially suitable habitat. However, the nearest record of the species is greater than 40 km from the Survey Area.
Goodenia sp. East Pilbara (A.A. Mitchell PRP 727)	Open, erect annual or biennial, herb	Red-brown clay soil, calcrete pebbles. Low undulating plain, swampy plains	Yellow	17.44 km	DBCA TPFL, RTIO, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** Small portions of the Survey Area contain some potentially suitable habitat. However, this species has not been recorded during this survey or previous surveys within the Survey Area. The nearest previous record is a moderate distance from the Survey Area.
Grevillea saxicola	Erect shrub or tree	Rocky hillside/ hillcrest, Drainage line, incised gully in rocky valley, plain, steep scree slope	Creamy white and scented. March, April June	45.58 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat. However, the nearest record of the species is greater than 45 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is greater than 45 km from the Survey Area.
Gymnanthera cunninghamii	Erect shrub	Sandy soils	Cream, yellow, green. All year	5.77 km	RTIO, WAHERB	**Likely:** The species has been recorded in very close proximity to the Survey Area and may contain suitable habitat.	**Likely:** The Survey Area contains suitable habitat and the nearest previous record of this species is in very close proximity to the Survey Area. The suitable habitat often corresponded to portions of the Survey Area where access was restricted due to heritage exclusion.

Species name	Growth habit	Broad habitat	Flower colour and flowering period	Distance to nearest record (km)	Data source (s)	Pre-survey Likelihood of Occurrence	Post survey Likelihood of Occurrence
Indigofera gilesii	Shrub	Pebbly loam. Amongst boulders & outcrops, hills	Purple, Pink. May or August	35.38 km	DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat. However, the nearest previous record is greater than 35 km from the Survey Area.	**Likely:** The Survey Area contains suitable habitat, and new records of *Indigofera gilesii* (P3) have been collected during surveys of adjacent areas to this Survey Area, (conducted since the conclusion of this NVCP survey).
Iotasperma sessilifolium	Erect herb	Cracking clay, black loam. Edges of waterholes, plains	Pink	13.54 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat (such as Koodaideri Spring), this species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is a moderate distance from the Survey Area.
Ipomoea racemigera	Creeping annual, herb to climber	Drainage line, flats with silty loam soil	White. April, June	14.65 km	DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Possible:** Small portions of the Survey Area contain some potentially suitable habitat, and there is a previous record in moderate proximity to the Survey Area. If present, this small-growing species may not have been readily detectable due to the dry seasonal conditions.
Isotropis parviflora	Shrub, 0.1 m high	Valley slope of ironstone plateau	White/pink, March	4.92 km	ALA, DBCA TPFL, RTIO, WAHERB	**Likely:** The species has been recorded in very close proximity to the Survey Area, which may contain suitable habitat.	**Likely:** The Survey Area contains suitable habitat and the nearest previous record of this species is in very close proximity to the Survey Area.
Nicotiana umbratica	Erect short-lived annual or perennial herb	Shallow soils. Rocky outcrops Granite boulder pile. Pale brown sandy clay, with granitic outcropping, boulders and stones.	White. April to June	>65 km	(Biota 2012b; f)	**Unlikely:** The desktop assessments within two reports reviewed during the literature review (Biota 2012b; f) indicated *Nicotiana umbratica* had been recorded during a previous survey (Pilbara Iron 2007). *Nicotiana umbratica* has not been recorded by any survey since 2007, and furthermore, does not appear on any database, including the database managed by Rio Tinto. Since 2013, the *Nicotiana* genus has undergone revisions, with six new taxa described that occur in the Pilbara bioregion (S. Dillon, WAH, pers. comm.). 16 November 2023).	**Unlikely:** The nearest record from any current database is greater than 65 km from the Survey Area.
Oxalis sp. Pilbara (M.E. Trudgen 12725)	Annual herb	Rocky hillslope, major creekline, steep gully, stony plain.	Yellow. May to August	37.47 km	DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is greater than 35 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat (such as Koodaideri Spring), this species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest record of the species is greater than 35 km from the Survey Area.
Rostellularia adscendens var. *latifolia*	Herb or shrub (Undefined)	Ironstone soils. Near creeks, rocky hills	Blue-purple-violet, Apr to May	0 km	ALA, RTIO, WAHERB	**Previously recorded within the Survey Area**	**Recorded during the Stantec survey**
Stackhousia clementii	Dense broom-like perennial	Skeletal soils. Sandstone hills	Green/yellow/brown.	10.36 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this perennial species has not been recorded during this survey or previous surveys within the Survey Area. Furthermore, the nearest previous record is a moderate distance from the Survey Area.

Species name	Growth habit	Broad habitat	Flower colour and flowering period	Distance to nearest record (km)	Data source (s)	Pre-survey Likelihood of Occurrence	Post survey Likelihood of Occurrence
Streptoglossa sp. Cracking clays (S. van Leeuwen et al. PBS 7353)	Annual herb	Moderately-drained, red clay loam extensive sub-saline flat. On flat terrain with mixture of calcrete, sodic and saline alluvium. Colluvial and alluvial gravels in fan or floodplain. Very gently inclined slope, aspect 40 degrees. Sheet-flood fan or distal colluvium in outwash fans. Red brown clay loam	Dark pink. June	8.57 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat, and the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** The Survey Area is not considered to contain suitable habitat, and this perennial species has not been recorded during this survey or previous surveys.
Stylidium weeliwolli	Annual, herb, 0.1-0.25 m high	Gritty sand soil, sandy clay. Edge of watercourses	Red, pink. August & September	17.67 km	DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a greater than 15 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat (such as Koodaideri Spring), this species has not been recorded during this survey or previous surveys. Furthermore, the nearest previous record is a moderate distance from the Survey Area.
Tecticornia medusa	Perennial shrubs to 0.7 m	No Information available.	Green or yellowish-green	20.87 km	WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is greater than 20 km from the Survey Area.	**Unlikely:** The Survey Area is not considered to contain suitable habitat, and this perennial species has not been recorded during this survey or previous surveys. Furthermore, the nearest record of the species is greater than 20 km from the Survey Area.
Themeda sp. Hamersley Station (M.E. Trudgen 11431)	Tussocky perennial, grass-like or herb (undefined)	Red Clay. Clay pan, grass plain	August	<0.01 km	RTIO, WAHERB	**Likely:** The species has been recorded in very close proximity to the Survey Area, which may contain suitable habitat.	**Possible:** The Survey Area may contain suitable habitat. Previous records adjacent to the Survey Area have likely been cleared.
Triodia basitricha	Hummock forming grass	Brown clay-loam over ironstone. Stony plain, rocky rise/flat/hill, Low rise	No information available	32.14 km	WAHERB	**Unlikely:** The Survey Area may contain suitable habitat. However, the nearest record of the species is greater than 30 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this perennial species has not been recorded during this survey or previous surveys. Furthermore, the nearest record of the species is greater than 30 km from the Survey Area.
Triodia sp. Mt Ella (M.E. Trudgen 12739)	Perennial hummock grass	Light orange-brown, pebbly loam. Amongst rocks & outcrops, gully slopes	No information available	45.05 km	WAHERB	**Unlikely:** The Survey Area may contain suitable habitat. However, the nearest record of the species is greater than 45 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this perennial species has not been recorded during this survey or previous surveys. Furthermore, the nearest record of the species is approximately 45 km from the Survey Area.
Vittadinia sp. Coondewanna Flats (S. van Leeuwen 4684)	Erect annual herb	Major drainage/ floodplain in valley between ranges. Flat/plain to very broad open drainage depression, sandy clay	Cream, white, yellow. May, July, September	10.82 km	DBCA TPFL, WAHERB	**Possible:** The Survey Area may contain suitable habitat; however, the nearest previous record is a moderate distance from the Survey Area.	**Possible:** Small portions of the Survey Area contain some potentially suitable habitat, and there is a previous record in moderate proximity to the Survey Area. If present, this small-growing annual species may not have been readily detectable due to the dry seasonal conditions. Furthermore, the survey was conducted prior to its known flowering times.
PRIORITY 4							
Acacia bromilowiana	Tree or shrub	Red skeletal stony loam, orange-brown pebbly, gravel loam, laterite, banded ironstone, basalt. Rocky hills, breakaways, scree slopes, gorges, creek beds	Yellow-pink. July to August	0 km	ALA, DBCA TPFL, RTIO, WAHERB	**Previously recorded within the Survey Area**	**Previously recorded within the Survey Area**

Species name	Growth habit	Broad habitat	Flower colour and flowering period	Distance to nearest record (km)	Data source (s)	Pre-survey Likelihood of Occurrence	Post survey Likelihood of Occurrence
Bulbostylis burbidgeae	Tufted, erect to spreading annual, sedge 0.03-0.25 m high, spikelets in a simple umbel or rarely solitary; stamens 3; involucral bracts long, hairy.	Granitic soils. Granite outcrops, cliff bases.	Brown. March or June to August	39.21 km	WAHERB	**Unlikely:** The Survey Area may contain suitable habitat. However, the nearest record of the species is approximately 40 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this species has not been recorded during this survey or previous surveys. Furthermore, the nearest record of the species is approximately 40 km from the Survey Area.
Eremophila magnifica subsp. *magnifica*	Shrub	Skeletal soils over ironstone. Rocky screes	Blue. August to November	0 km	ALA, RTIO, WAHERB	**Previously recorded within the Survey Area**	**Recorded during the Stantec survey**
Eremophila youngii subsp. *lepidota*	Erect shrub, 1 – 2 m tall.	Stony red sandy loam. Flats plains, floodplains, sometimes semi-saline, clay flats.	Purple, red or pink, flowering in January, March, June or August to September.	8.07 km	RTIO, WAHERB	**Possible:** The Survey Area may contain suitable habitat; the nearest previous record is a moderate distance from the Survey Area.	**Unlikely:** The Survey Area is not considered to contain suitable habitat, and this perennial species has not been recorded during this survey or previous surveys.
Ptilotus mollis	Compact, perennial shrub	Stony hills and screes	White/pink. May or September	99 km	(Biota 2012c)	**Possible:** The Survey Area may contain suitable habitat; and the nearest know record was recorded during the Koodaideri Western Rail Corridor Vegetation and Flora Survey ((Biota 2012e)). However, the record is approximately 99 km from the Survey Area.	**Unlikely:** Although the Survey Area may contain suitable habitat, this species has not been recorded during this survey or previous surveys within this Survey Area. Furthermore, the nearest record of the species is nearly 100 km from the Survey Area
Rhynchosia bungarensis	Compact, prostrate shrub	Pebbly, shingly coarse sand amongst boulders. Banks of flow line in the mouth of a gully in a valley wall	Yellow	0 km	ALA, RTIO, WAHERB	**Previously recorded within the Survey Area**	**Recorded during the Stantec survey**

Appendix F Vascular Flora Species List

Family	Taxa	Previous Surveys	Stantec Survey
Acanthaceae	*Dipteracanthus australasicus* subsp. *australasicus*		✓
	Rostellularia adscendens var. *latifolia* (P3)		✓
Aizoaceae	*Trianthema glossostigmum*	✓	
	Trianthema pilosum	✓	✓
	Trianthema triquetrum		✓
	Zaleya galericulata subsp. *galericulata*		✓
Amaranthaceae	*Achyranthes aspera*	✓	
	**Aerva javanica*	✓	✓
	Amaranthus cuspidifolius	✓	✓
	Amaranthus interruptus	✓	
	Amaranthus sp.	✓	
	Amaranthus undulatus	✓	✓
	Gomphrena affinis subsp. *pilbarensis*	✓	✓
	Gomphrena canescens subsp. *canescens*	✓	✓
	Gomphrena cunninghamii	✓	✓
	Gomphrena kanisii	✓	
	Gomphrena sp.		✓
	Ptilotus ?*clementii*		✓
	Ptilotus ?*fusifomis*		✓
	Ptilotus ?*rotundifolius*		✓
	Ptilotus astrolasius	✓	✓
	Ptilotus auriculifolius	✓	
	Ptilotus calostachyus	✓	✓
	Ptilotus clementii	✓	✓
	Ptilotus exaltatus	✓	✓
	Ptilotus fusiformis	✓	✓
	Ptilotus gaudichaudii	✓	
	Ptilotus helipteroides	✓	
	Ptilotus obovatus var. *obovatus*	✓	✓
	Ptilotus polystachyus	✓	✓
	Ptilotus rotundifolius	✓	✓
	Ptilotus schwartzii var. *schwartzii*	✓	
	Ptilotus sp.		✓
Apocynaceae	?*Leichhardtia australis*		✓
	Cynanchum floribundum	✓	✓
	Cynanchum viminale subsp. *australe*		✓

Family	Taxa	Previous Surveys	Stantec Survey
	Vincetoxicum flexuosum	✓	
	Vincetoxicum lineare		✓
Araliaceae	*Astrotricha hamptonii*		✓
	Trachymene oleracea subsp. *oleracea*	✓	✓
	Trachymene sp.		✓
Asteraceae	*Apowollastonia hamersleyensis*	✓	
	**Bidens bipinnata*	✓	
	Calocephalus beardii	✓	
	**Erigeron bonariensis*	✓	
	**Flaveria trinervia*	✓	
	**Lactuca saligna*	✓	
	**Lactuca serriola* forma *serriola*	✓	
	Pentalepis trichodesmoides ?subsp.	✓	
	Pentalepis trichodesmoides subsp. *trichodesmoides*		✓
	Peripleura virgata	✓	✓
	Pluchea dentex	✓	
	Pluchea dunlopii	✓	✓
	Pluchea rubelliflora	✓	
	Pluchea tetranthera		✓
	Pterocaulon serrulatum var. *velutinum*	✓	
	Pterocaulon sp.		✓
	Pterocaulon sphacelatum	✓	✓
	Pterocaulon sphaeranthoides	✓	
	Rhodanthe margarethae	✓	
	Streptoglossa decurrens	✓	✓
	**Sonchus oleraceus*	✓	
Boraginaceae	*Ehretia saligna* var. *saligna*	✓	✓
	Euploca ?*chrysocarpa*		✓
	Euploca chrysocarpa	✓	
	Euploca cunninghamii	✓	✓
	Euploca glabella		✓
	Euploca heterantha	✓	
	Euploca ovalifolia	✓	
	Euploca pachyphylla	✓	✓
	Euploca sp.		✓
	Euploca tanythrix		✓

Family	Taxa	Previous Surveys	Stantec Survey
	Euploca tenuifolia	✓	✓
	Trichodesma zeylanicum var. *zeylanicum*	✓	✓
Brassicaceae	*Lepidium catapycnon* (P4)	✓	
	Lepidium pedicellosum	✓	
	Lepidium platypetalum		✓
	Lepidium sp.		✓
Campanulaceae	*Lobelia heterophylla* subsp. *pilbarensis*	✓	
	Wahlenbergia tumidifructa	✓	
Capparaceae	*Capparis lasiantha*	✓	✓
	Capparis spinosa subsp. *nummularia*	✓	✓
	Capparis umbonata	✓	
Caryophyllaceae	*Polycarpaea* ?*longiflora*		✓
	Polycarpaea corymbosa var. *corymbosa*	✓	
	Polycarpaea holtzei	✓	
	Polycarpaea longiflora	✓	✓
	Polycarpaea sp.		✓
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)		✓
	Stackhousia intermedia	✓	
	Stackhousia sp.		✓
Chenopodiaceae	*Dysphania rhadinostachya* ?subsp.	✓	
	Dysphania rhadinostachya subsp. *inflata*	✓	
	Dysphania rhadinostachya subsp. *rhadinostachya*	✓	✓
	Enchylaena tomentosa var. *tomentosa*	✓	✓
	Maireana ?*tomentosa* subsp. *tomentosa*		✓
	Maireana planifolia		✓
	Maireana sp.		✓
	Maireana tomentosa subsp. *tomentosa*		✓
	Rhagodia eremaea	✓	✓
	Salsola australis	✓	✓
	Sclerolaena cornishiana		✓
	Sclerolaena sp.		✓
Cleomaceae	*Arivela viscosa*	✓	✓
Convolvulaceae	*Bonamia erecta*	✓	✓
	Bonamia media	✓	
	Bonamia pilbarensis	✓	✓
	Duperreya commixta	✓	✓

Family	Taxa	Previous Surveys	Stantec Survey
	Evolvulus alsinoides var. *decumbens*	✓	✓
	Evolvulus alsinoides var. *villosicalyx*	✓	✓
	Ipomoea muelleri	✓	
	Polymeria ?ambigua		✓
	Polymeria aff. ambigua	✓	
	Polymeria ambigua	✓	
	Polymeria mollis		✓
Cucurbitaceae	*Cucumis* sp.	✓	
	Cucumis variabilis	✓	✓
Cyperaceae	*Bulbostylis barbata*	✓	
	Cyperus cunninghamii subsp. *cunninghamii*	✓	✓
	Cyperus sp.		✓
	Cyperus vaginatus	✓	
	Fimbristylis dichotoma	✓	
	Fimbristylis simulans	✓	✓
Euphorbiaceae	*Euphorbia ?biconvexa*		✓
	Euphorbia ?trigonosperma		✓
	Euphorbia aff. schultzii	✓	
	Euphorbia australis ?var.	✓	
	Euphorbia australis var. *hispidula*	✓	✓
	Euphorbia australis var. *subtomentosa*	✓	✓
	Euphorbia biconvexa	✓	✓
	Euphorbia boophthona	✓	
	Euphorbia careyi	✓	✓
	Euphorbia coghlanii	✓	
	**Euphorbia hirta*		✓
	Euphorbia sp.	✓	
	Euphorbia tannensis subsp. *eremophila*	✓	✓
	Euphorbia trigonosperma	✓	✓
	Euphorbia vaccaria ?var. *vaccaria*		✓
Fabaceae	*Acacia ?aneura*	✓	✓
	Acacia ?aptaneura		✓
	Acacia ?elachantha		✓
	Acacia ?paraneura		✓
	Acacia adoxa var. *adoxa*	✓	✓
	Acacia adoxa var. *adoxa* x *Acacia spondylophylla*		✓

Family	Taxa	Previous Surveys	Stantec Survey
Fabaceae	*Acacia adsurgens*	✓	✓
	Acacia ancistrocarpa	✓	✓
	Acacia aptaneura	✓	✓
	Acacia arida	✓	✓
	Acacia atkinsiana		✓
	Acacia ayersiana	✓	
	Acacia bivenosa	✓	✓
	Acacia bromilowiana (P4)	✓	
	Acacia citrinoviridis	✓	
	Acacia colei var. *colei*		✓
	Acacia coriacea subsp. *pendens*	✓	
	Acacia cowleana	✓	
	Acacia dictyophleba	✓	✓
	Acacia elachantha	✓	✓
	Acacia fuscaneura	✓	
	Acacia hamersleyensis (P4)	✓	✓
	Acacia hilliana	✓	✓
	Acacia inaequilatera	✓	✓
	Acacia maitlandii	✓	✓
	Acacia marramamba	✓	✓
	Acacia monticola	✓	✓
	Acacia pachyacra	✓	✓
	Acacia pruinocarpa	✓	✓
	Acacia pyrifolia ?*var*	✓	
	Acacia pyrifolia ?var. *pyrifolia*		✓
	Acacia pyrifolia var. *pyrifolia*	✓	✓
	Acacia rhodophloia	✓	✓
	Acacia sclerosperma subsp. *sclerosperma*		✓
	Acacia sericophylla	✓	✓
	Acacia sp.	✓	✓
	Acacia sp. (aneura complex)	✓	✓
	Acacia spondylophylla	✓	✓
	Acacia synchronicia	✓	✓
	Acacia tenuissima	✓	✓
	Acacia tetragonophylla	✓	
	Acacia trachycarpa	✓	✓

Family	Taxa	Previous Surveys	Stantec Survey
Fabaceae	*Acacia trudgeniana*	✓	✓
	Acacia tumida ?var.	✓	✓
	Acacia tumida var. *pilbarensis*	✓	✓
	Acacia wanyu		✓
	Acacia xiphophylla		✓
	Acacia ?*adsurgens*		✓
	Cajanus cinereus	✓	
	Cajanus ?*cinereus*		✓
	Crotalaria medicaginea var. *neglecta*	✓	✓
	Crotalaria novae-hollandiae subsp. *novae-hollandiae*	✓	✓
	Cullen lachnostachys	✓	
	Cullen leucochaites	✓	
	Cullen pustulatum		✓
	Glycine canescens	✓	✓
	Gompholobium oreophilum	✓	✓
	Indigofera ?*fractiflexa*		✓
	Indigofera colutea	✓	✓
	Indigofera monophylla	✓	✓
	Indigofera sp.		✓
	Isotropis atropurpurea	✓	✓
	Mirbelia viminalis	✓	✓
	Petalostylis labicheoides	✓	✓
	Rhynchosia bungarensis (P4)	✓	✓
	Rhynchosia minima	✓	✓
	Senna ?*glaucifolia*		✓
	Senna artemisioides subsp. *helmsii*	✓	✓
	Senna artemisioides subsp. *helmsii* x *oligophylla*	✓	
	Senna artemisioides subsp. *oligophylla*	✓	✓
	Senna artemisioides subsp. *oligophylla* x *Senna ferraria*	✓	
	Senna artemisioides subsp. *oligophylla* x subsp. *helmsii*	✓	
	Senna glaucifolia	✓	✓
	Senna glutinosa ?subsp.	✓	
	Senna glutinosa subsp. x *luerssenii*	✓	✓
	Senna glutinosa subsp. *glutinosa*	✓	✓
	Senna glutinosa subsp. *glutinosa* ?*x*		✓

Family	Taxa	Previous Surveys	Stantec Survey
Fabaceae	*Senna glutinosa* subsp. *glutinosa x* subsp. x*luerssenii*	✓	
	Senna glutinosa subsp. *pruinosa*	✓	✓
	Senna glutinosa subsp. *pruinosa x* subsp. x *luerssenii*	✓	
	Senna notabilis	✓	✓
	Senna sp.	✓	✓
	Senna stricta		✓
	Senna symonii	✓	
	Senna venusta	✓	✓
	Swainsona formosa		✓
	Templetonia hookeri		✓
	Tephrosia ?*densa*	✓	✓
	Tephrosia ?*rosea* var. Fortescue creeks (M.I.H. Brooker 2186)		✓
	Tephrosia aff. *supina*	✓	
	Tephrosia arenicola	✓	✓
	Tephrosia densa	✓	✓
	Tephrosia oxalidea	✓	
	Tephrosia rosea ?var.	✓	
	Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)	✓	✓
	Tephrosia sp.		✓
	Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	✓	✓
	Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	✓	
	Tephrosia virens	✓	✓
Goodeniaceae	?*Goodenia stobbsiana*		✓
	Dampiera candicans	✓	✓
	Goodenia ?*stobbsiana*		✓
	Goodenia ?*triodiophila*		✓
	Goodenia cusackiana	✓	✓
	Goodenia microptera	✓	✓
	Goodenia muelleriana	✓	✓
	Goodenia sp.		✓
	Goodenia stobbsiana	✓	✓
	Goodenia triodiophila	✓	✓
	Scaevola ?*browniana*		✓
	Scaevola amblyanthera var. *centralis*	✓	
	Scaevola browniana subsp. *browniana*	✓	✓

Family	Taxa	Previous Surveys	Stantec Survey
Goodeniaceae	*Scaevola parvifolia* ?subsp.	✓	
	Scaevola parvifolia subsp. ?*pilbarae*		✓
	Scaevola parvifolia subsp. *pilbarae*	✓	✓
	Scaevola sp.	✓	
	Scaevola sp. Mt Bruce (M.E. Trudgen 1333)	✓	
	Scaevola spinescens	✓	✓
Gyrostemonaceae	*Codonocarpus cotinifolius*	✓	✓
Haloragaceae	*Haloragis gossei* ?subsp.	✓	
Lamiaceae	*Clerodendrum* ?*tomentosum* var. *lanceolatum*		✓
	Clerodendrum floribundum ?var.	✓	
	Clerodendrum floribundum var. *angustifolium*	✓	✓
	Clerodendrum sp.		✓
	Dicrastylis cordifolia	✓	✓
	Newcastelia clavipetala	✓	✓
Lauraceae	*Cassytha capillaris*	✓	✓
Loranthaceae	*Diplatia grandibractea*		✓
Malvaceae	?*Abutilon* sp.		✓
	Abutilon ?sp. Dioicum (A.A. Mitchell PRP 1618)		✓
	Abutilon aff. *hannii*	✓	
	Abutilon amplum	✓	
	Abutilon cunninghamii	✓	
	Abutilon fraseri subsp. *fraseri*	✓	✓
	Abutilon lepidum	✓	✓
	Abutilon macrum		✓
	Abutilon otocarpum	✓	✓
	Abutilon sp.	✓	✓
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	✓	✓
	Androcalva luteiflora	✓	✓
	Brachychiton acuminatus	✓	✓
	Calytrix carinata	✓	✓
	Corchorus ?*lasiocarpus* subsp. *lasiocarpus*		✓
	Corchorus ?*tectus*		✓
	Corchorus aff. *tectus*		✓
	Corchorus crozophorifolius	✓	✓
	Corchorus incanus subsp. *incanus*	✓	
	Corchorus incanus subsp. *lithophilus*	✓	✓

Family	Taxa	Previous Surveys	Stantec Survey
Malvaceae	*Corchorus laniflorus*	✓	
	Corchorus lasiocarpus ?subsp.	✓	
	Corchorus lasiocarpus ?subsp. *parvus*		✓
	Corchorus lasiocarpus subsp. *lasiocarpus*	✓	✓
	Corchorus lasiocarpus subsp. *parvus*	✓	
	Corchorus sidoides ?subsp.	✓	
	Corchorus sidoides subsp. *sidoides*	✓	
	Corchorus sp.	✓	✓
	Corchorus tectus	✓	
	Corchorus tridens	✓	✓
	Corchorus walcottii	✓	
	Corchorus lasiocarpus ?subsp. *lasiocarpus*		✓
	Gossypium australe	✓	✓
	Gossypium robinsonii	✓	✓
	Hibiscus ?*brachychlaenus*		✓
	Hibiscus aff. *coatesii*	✓	
	Hibiscus burtonii	✓	✓
	Hibiscus coatesii	✓	✓
	Hibiscus goldsworthii	✓	
	Hibiscus leptocladus	✓	✓
	Hibiscus sp.	✓	✓
	Hibiscus sp. Gardneri (A.L. Payne PRP 1435)		✓
	Hibiscus sp. Mt Robinson (G. Byrne 3537)	✓	✓
	Hibiscus sturtii ?var.	✓	
	Hibiscus sturtii var. aff. *campylochlamys*	✓	
	Hibiscus sturtii var. *campylochlamys*	✓	✓
	Hibiscus sturtii var. *grandiflorus*	✓	
	Hibiscus sturtii var. *platychlamys*	✓	✓
	Malvaceae sp.		✓
	**Malvastrum americanum*	✓	✓
	Melhania oblongifolia	✓	✓
	Seringia exastia	✓	✓
	Seringia nephrosperma	✓	
	Sida ?*arenicola*		✓
	Sida ?*cardiophylla*		✓
	Sida ?*fibulifera*	✓	✓

Family	Taxa	Previous Surveys	Stantec Survey
Malvaceae	*Sida* ?*platycalyx*		✓
	Sida ?sp. Articulation below (A.A. Mitchell PRP 1605)		✓
	Sida ?sp. L (A.M. Ashby 4202)		✓
	Sida arenicola	✓	
	Sida cardiophylla	✓	✓
	Sida echinocarpa	✓	✓
	Sida fibulifera	✓	✓
	Sida platycalyx	✓	
	Sida rohlenae subsp. *rohlenae*	✓	
	Sida sp.	✓	✓
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)	✓	✓
	Sida sp. Barlee Range (S. van Leeuwen 1642)	✓	✓
	Sida sp. dark green fruits (S. van Leeuwen 2260)	✓	
	Sida sp. Excedentifolia (J.L. Egan 1925)	✓	✓
	Sida sp. L (A.M. Ashby 4202)	✓	✓
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)	✓	✓
	Sida sp. Shovelanna Hill (S. van Leeuwen 3842)	✓	
	Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90)	✓	
	Sida ?sp. Pilbara (A.A. Mitchell PRP 1543)		✓
	Sida ?sp. spiciform panicles (E. Leyland s.n. 14/8/90)		✓
	Triumfetta ?*leptacantha*		✓
	Triumfetta leptacantha	✓	✓
	Triumfetta maconochieana	✓	✓
	Triumfetta sp.		✓
	Waltheria indica	✓	✓
Menispermaceae	*Tinospora smilacina*	✓	✓
Molluginaceae	*Trigastrotheca molluginea*	✓	✓
Moraceae	*Ficus brachypoda*	✓	✓
	Ficus virens var. *virens*	✓	
Myrtaceae	*Corymbia* ?*deserticola* subsp. *deserticola*		✓
	Corymbia ?*hamersleyana*		✓
	Corymbia deserticola subsp. *deserticola*	✓	✓
	Corymbia ferriticola	✓	✓
	Corymbia hamersleyana	✓	✓
	Corymbia deserticola ?subsp. *deserticola*		✓
	Eucalyptus ?*victrix*		✓

Family	Taxa	Previous Surveys	Stantec Survey
	Eucalyptus camaldulensis subsp. *refulgens*	✓	
	Eucalyptus gamophylla	✓	✓
	Eucalyptus kingsmillii	✓	✓
	Eucalyptus leucophloia subsp. *leucophloia*	✓	✓
	Eucalyptus sp.	✓	
	Eucalyptus victrix	✓	✓
	Eucalyptus xerothermica	✓	
	Eucalyptus ?xerothermica		✓
Nyctaginaceae	*Boerhavia coccinea*	✓	✓
	Boerhavia sp.		✓
Oleaceae	*Jasminum didymum* subsp. *lineare*	✓	✓
Phyllanthaceae	*Dendrophyllanthus erwinii*	✓	✓
	Flueggea virosa subsp. *melanthesoides*	✓	✓
	Kirganelia baccata	✓	
	Nellica maderaspatensis	✓	✓
	Notoleptopus decaisnei	✓	✓
	Synostemon hamersleyensis (T, En))	✓	✓
Plantaginaceae	*Stemodia grossa*	✓	
Poaceae	*Amphipogon ?sericeus*		✓
	Amphipogon sericeus	✓	
	Aristida ?holathera var. *holathera*		✓
	Aristida burbidgeae	✓	✓
	Aristida contorta	✓	✓
	Aristida holathera var. *holathera*	✓	✓
	Aristida inaequiglumis	✓	✓
	Aristida ingrata	✓	
	Aristida latifolia	✓	
	Aristida pruinosa	✓	
	Aristida sp.	✓	✓
	Brachyachne sp.		✓
	**Cenchrus ciliaris*	✓	✓
	**Cenchrus setiger*	✓	✓
	Chrysopogon fallax	✓	✓
	Cymbopogon ambiguus	✓	✓
	Cymbopogon obtectus	✓	
	Cymbopogon sp.	✓	

Family	Taxa	Previous Surveys	Stantec Survey
Poaceae	*Cynodon prostratus*	✓	
	Digitaria brownii	✓	
	Enneapogon caerulescens	✓	✓
	Enneapogon lindleyanus	✓	✓
	Enneapogon polyphyllus	✓	✓
	Enteropogon ramosus	✓	
	Eragrostis cumingii	✓	
	Eragrostis eriopoda	✓	✓
	Eragrostis olida		✓
	Eragrostis setifolia	✓	
	Eriachne aristidea	✓	✓
	Eriachne ciliata	✓	
	Eriachne lanata	✓	✓
	Eriachne mucronata	✓	✓
	Eriachne pulchella ?subsp.	✓	
	Eriachne pulchella subsp. *dominii*		✓
	Eriachne pulchella subsp. *pulchella*		✓
	Eriachne sp.	✓	
	Eriachne tenuiculmis	✓	
	Eulalia aurea	✓	✓
	Eulalia simonii	✓	
	Neurachne muelleri	✓	✓
	Panicum australiense var. *australiense*	✓	
	Panicum decompositum		✓
	Paspalidium basicladum	✓	
	Paspalidium clementii	✓	✓
	Paspalidium tabulatum		✓
	Perotis rara	✓	
	Poaceae sp.		✓
	Schizachyrium fragile	✓	
	Setaria surgens	✓	
	**Setaria verticillata*	✓	✓
	Sorghum plumosum var. *plumosum*	✓	
	Sporobolus australasicus	✓	
	Themeda ?*triandra*		✓
	Themeda sp. Mt Barricade (M.E. Trudgen 2471)	✓	

Family	Taxa	Previous Surveys	Stantec Survey
Poaceae	*Themeda triandra*	✓	✓
	Triodia ?basedowii		✓
	Triodia ?epactia		✓
	Triodia ?epactia/pungens	✓	✓
	Triodia ?vanleeuwenii		✓
	Triodia basedowii		✓
	Triodia brizoides	✓	✓
	Triodia epactia	✓	✓
	Triodia lanigera	✓	
	Triodia pungens	✓	✓
	Triodia sp.	✓	✓
	Triodia vanleeuwenii	✓	✓
	Triodia wiseana	✓	✓
Polygalaceae	*Polygala glaucifolia*	✓	
Polygonaceae	**Rumex vesicarius*	✓	
Portulacaceae	*Portulaca oleracea*	✓	✓
	Portulaca oleracea x intraterranea	✓	
Proteaceae	*Grevillea berryana*	✓	✓
	Grevillea pyramidalis subsp. *leucadendron*	✓	✓
	Grevillea wickhamii ?subsp.	✓	✓
	Grevillea wickhamii subsp. *aprica*	✓	
	Grevillea wickhamii subsp. *hispidula*	✓	✓
	Hakea chordophylla	✓	✓
	Hakea lorea subsp. *lorea*	✓	✓
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*	✓	✓
	Cheilanthes sp.		✓
Rhamnaceae	*Ventilago viminalis*	✓	
Rubiaceae	*Dolichocarpa crouchiana*	✓	✓
	Dolichocarpa sp.		✓
	Psydrax latifolia	✓	✓
	Synaptantha tillaeacea var. *tillaeacea*	✓	
Santalaceae	*Anthobolus leptomerioides*	✓	✓
	Santalum lanceolatum	✓	✓
	Santalum spicatum		✓
Sapindaceae	*Alectryon oleifolius* subsp. *oleifolius*	✓	
	Atalaya hemiglauca	✓	✓

Family	Taxa	Previous Surveys	Stantec Survey
	Dodonaea coriacea	✓	✓
	Dodonaea lanceolata var. *lanceolata*		✓
	Dodonaea pachyneura	✓	✓
	Dodonaea petiolaris		✓
	Dodonaea viscosa ?subsp.	✓	
Scrophulariaceae	*Eremophila* ?*jucunda* subsp. *pulcherrima*		✓
	Eremophila cuneifolia		✓
	Eremophila forrestii subsp. *forrestii*		✓
	Eremophila jucunda subsp. *jucunda*	✓	
	Eremophila jucunda subsp. *pulcherrima*	✓	
	Eremophila latrobei subsp. aff. *filiformis*	✓	
	Eremophila latrobei subsp. *filiformis*	✓	✓
	Eremophila longifolia	✓	✓
	Eremophila magnifica subsp. *magnifica* (P4)		✓
	Eremophila naaykensii (P3)	✓	
	Eremophila oppositifolia subsp. *angustifolia*	✓	
	Eremophila phyllopoda subsp. *obliqua*	✓	
	Eremophila sp.	✓	
	Eremophila tietkensii	✓	
Solanaceae	*Nicotiana benthamiana*	✓	✓
	Nicotiana occidentalis	✓	
	Solanum ?*lasiophyllum*		✓
	Solanum ?*phlomoides*		✓
	Solanum aff. *lucani*	✓	
	Solanum cleistogamum		✓
	Solanum gabrielae	✓	
	Solanum lasiophyllum	✓	
	Solanum perarmatum	✓	✓
	Solanum phlomoides	✓	✓
	Solanum sp.	✓	✓
Surianaceae	*Stylobasium spathulatum*	✓	✓
Typhaceae	*Typha domingensis*	✓	
Violaceae	*Afrohybanthus aurantiacus*	✓	✓
Zygophyllaceae	*Tribulopis angustifolia*		✓
	Tribulus ?*hirsutus*		✓
	Tribulus ?*macrocarpus*		✓

Family	Taxa	Previous Surveys	Stantec Survey
Zygophyllaceae	*Tribulus ?platypterus*		✓
	Tribulus astrocarpus		✓
	Tribulus hirsutus	✓	
	Tribulus macrocarpus	✓	✓
	Tribulus platypterus	✓	
	Tribulus sp.		✓
	Tribulus suberosus	✓	✓
	**Tribulus terrestris*	✓	

Appendix G Site x Species Matrix

J.1 Quadrats

Family	Taxon	SGD001	SGD003	SGD004	SGD005	SGD006	SGD007	SGD008	SGD009	SGD010	SGD011	SGD012	SGD013	SGD015
Acanthaceae	*Dipteracanthus australasicus* subsp. *australasicus*													
	Rostellularia adscendens var. *latifolia*				X	X								
Aizoaceae	*Trianthema pilosum*													
	Trianthema triquetrum													
	Zaleya galericulata subsp. *galericulata*													
Amaranthaceae	**Aerva javanica*													
	Amaranthus cuspidifolius													
	Amaranthus undulatus													
	Gomphrena affinis subsp. *pilbarensis*				X	X								
	Gomphrena canescens subsp. *canescens*													
	Gomphrena cunninghamii													
	Gomphrena sp.													
	Ptilotus ?clementii													
	Ptilotus ?fusifomis													
	Ptilotus ?rotundifolius													
	Ptilotus astrolasius				X	X	X				X			
	Ptilotus calostachyus	X			X		X				X	X		
	Ptilotus clementii	X								X				
	Ptilotus exaltatus	X		X	X	X	X		X	X	X		X	X
	Ptilotus fusiformis	X					X	X						
	Ptilotus obovatus var. *obovatus*				X	X								
	Ptilotus polystachyus													
	Ptilotus rotundifolius													
	Ptilotus sp.		X	X				X	X					X
Apocynaceae	*?Leichhardtia australis*													
	Cynanchum floribundum													
	Cynanchum viminale subsp. *australe*													
	Vincetoxicum lineare													
Araliaceae	*Astrotricha hamptonii*													
	Trachymene oleracea subsp. *oleracea*													
	Trachymene sp.													
Asteraceae	*Pentalepis trichodesmoides* subsp. *trichodesmoides*													
	Peripleura virgata													
	Pluchea dunlopii													
	Pluchea tetranthera													
	Pterocaulon sp.													
	Pterocaulon sphacelatum													
	Streptoglossa decurrens													
Boraginaceae	*Ehretia saligna* var. *saligna*													
	Euploca ?chrysocarpa													
	Euploca cunninghamii													
	Euploca glabella													
	Euploca pachyphylla													
	Euploca sp.													
	Euploca tanythrix													
	Euploca tenuifolia				X	X								
	Trichodesma zeylanicum var. *zeylanicum*				X	X								
Brassicaceae	*Lepidium platypetalum*													
	Lepidium sp.													
Capparaceae	*Capparis lasiantha*													
	Capparis spinosa subsp. *nummularia*													
Caryophyllaceae	*Polycarpaea ?longiflora*													

	Polycarpaea longiflora													
	Polycarpaea sp.				X	X	X							
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)					X								
	Stackhousia sp.													
Chenopodiaceae	*Dysphania rhadinostachya* subsp. *rhadinostachya*													
	Enchylaena tomentosa var. *tomentosa*													
	Maireana ?tomentosa subsp. *tomentosa*													
	Maireana planifolia													
	Maireana sp.													
	Maireana tomentosa subsp. *tomentosa*													
	Rhagodia eremaea													
	Salsola australis				X	X								
	Sclerolaena cornishiana													
	Sclerolaena sp.													
Cleomaceae	*Arivela viscosa*				X	X								
Convolvulaceae	*Bonamia erecta*													
	Bonamia pilbarensis							X						
	Duperreya commixta					X								
	Evolvulus alsinoides var. *decumbens*													
	Evolvulus alsinoides var. *villosicalyx*				X	X							X	
	Polymeria ?ambigua													
	Polymeria mollis													
Cucurbitaceae	*Cucumis variabilis*				X	X								
Cyperaceae	*Cyperus cunninghamii* subsp. *cunninghamii*													
	Cyperus sp.													
	Fimbristylis simulans						X							
Euphorbiaceae	**Euphorbia hirta*													
	Euphorbia ?biconvexa													
	Euphorbia ?trigonosperma													
	Euphorbia australis var. *hispidula*													
	Euphorbia australis var. *subtomentosa*													
	Euphorbia biconvexa													
	Euphorbia careyi													
	Euphorbia tannensis subsp. *eremophila*													
	Euphorbia trigonosperma													
	Euphorbia vaccaria ?var. *vaccaria*													
Fabaceae	*Acacia ?adsurgens*													
	Acacia ?aneura													
	Acacia ?aptaneura													
	Acacia ?elachantha													
	Acacia ?paraneura													
	Acacia adoxa var. *adoxa*													
	Acacia adoxa var. *adoxa* x *Acacia spondylophylla*													
	Acacia adsurgens													
	Acacia ancistrocarpa													
	Acacia aptaneura													
	Acacia arida													
	Acacia atkinsiana													
	Acacia bivenosa									X				
	Acacia colei var. *colei*													
	Acacia dictyophleba													
	Acacia elachantha													
	Acacia hamersleyensis													
	Acacia hilliana	X		X			X	X			X	X		
	Acacia inaequilatera						X							
	Acacia maitlandii													X

Acacia marramamba		X											
Acacia monticola													
Acacia pachyacra								X					X
Acacia pruinocarpa	X					X					X	X	X
Acacia pyrifolia ?var.													
Acacia pyrifolia ?var. *pyrifolia*													
Acacia pyrifolia var. *pyrifolia*				X	X								
Acacia rhodophloia													
Acacia sclerosperma subsp. *sclerosperma*													
Acacia sericophylla													X
Acacia sp.													
Acacia sp. (aneura complex)													
Acacia spondylophylla	X	X	X			X	X		X	X	X	X	
Acacia synchronicia													
Acacia tenuissima										X			
Acacia trachycarpa													
Acacia trudgeniana													X
Acacia tumida ?var.													
Acacia tumida var. *pilbarensis*				X	X								
Acacia wanyu													
Acacia xiphophylla													
Cajanus ?*cinereus*													
Crotalaria medicaginea var. *neglecta*													
Crotalaria novae-hollandiae subsp. *novae-hollandiae*													
Cullen pustulatum													
Glycine canescens													
Gompholobium oreophilum	X		X							X	X		
Indigofera ?*fractiflexa*													
Indigofera colutea													
Indigofera monophylla					X								
Indigofera sp.													
Isotropis atropurpurea													
Mirbelia viminalis								X					X
Petalostylis labicheoides	X					X						X	
Rhynchosia bungarensis													
Rhynchosia minima													
Senna ?*glaucifolia*													X
Senna artemisioides subsp. *helmsii*								X	X	X			X
Senna artemisioides subsp. *oligophylla*	X						X				X		
Senna glaucifolia						X					X		
Senna glutinosa subsp. ×*luerssenii*													
Senna glutinosa subsp. *glutinosa*							X						
Senna glutinosa subsp. *glutinosa* ?*x*													
Senna glutinosa subsp. *pruinosa*									X				
Senna notabilis	X					X							
Senna sp.													
Senna stricta													
Senna venusta													
Swainsona formosa													
Templetonia hookeri													
Tephrosia ?*densa*													
Tephrosia ?*rosea* var. Fortescue Creeks (M.I.H Brooker 2186)				X	X								
Tephrosia arenicola													
Tephrosia densa													
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)													
Tephrosia sp.						X							

	Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)													
	Tephrosia virens													
Goodeniaceae	?*Goodenia stobbsiana*			X							X			X
	Dampiera candicans	X	X	X			X							
	Goodenia ?stobbsiana													
	Goodenia ?triodiophila													
	Goodenia cusackiana													X
	Goodenia microptera						X							
	Goodenia muelleriana													
	Goodenia sp.	X						X				X		
	Goodenia stobbsiana	X	X				X					X		
	Goodenia triodiophila													
	Scaevola ?browniana													
	Scaevola browniana subsp. *browniana*	X					X				X	X		
	Scaevola parvifolia subsp. ?*pilbarae*													
	Scaevola parvifolia subsp. *pilbarae*													
	Scaevola spinescens													
Gyrostemonaceae	*Codonocarpus cotinifolius*													
Lamiaceae	*Clerodendrum ?tomentosum* var. *lanceolatum*													
	Clerodendrum floribundum var. *angustifolium*					X								
	Clerodendrum sp.													
	Dicrastylis cordifolia													
	Newcastelia clavipetala													
Lauraceae	*Cassytha capillaris*													
Loranthaceae	*Diplatia grandibractea*										X			
Malvaceae	**Malvastrum americanum*													
	?*Abutilon* sp.													
	Abutilon ?sp. Dioicum (A.A. Mitchell PRP 1618)				X									
	Abutilon fraseri subsp. *fraseri*													
	Abutilon lepidum													
	Abutilon macrum					X								
	Abutilon otocarpum													
	Abutilon sp.													
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)													
	Androcalva luteiflora													
	Brachychiton acuminatus													
	Corchorus ?lasiocarpus subsp. *lasiocarpus*												X	X
	Corchorus ?tectus													
	Corchorus aff. *tectus*													
	Corchorus crozophorifolius				X	X								
	Corchorus incanus subsp. *lithophilus*													
	Corchorus lasiocarpus ?subsp. *parvus*													
	Corchorus lasiocarpus subsp. *lasiocarpus*													
	Corchorus sp.						X							
	Corchorus tridens													
	Corchorus lasiocarpus ?subsp. *lasiocarpus*	X												
	Gossypium australe													
	Gossypium robinsonii				X									
	Hibiscus ?brachychlaenus													
	Hibiscus burtonii	X												
	Hibiscus coatesii									X				
	Hibiscus leptocladus													
	Hibiscus sp.						X							
	Hibiscus sp. Gardneri (A.L. Payne PRP 1435)													
	Hibiscus sp. Mt Robinson (G. Byrne 3537)													
	Hibiscus sturtii var. *campylochlamys*						X							

	Hibiscus sturtii var. *platychlamys*													
	Malvaceae sp.													
	Melhania oblongifolia													
	Seringia exastia										X			
	Sida ?*arenicola*													
	Sida ?*cardiophylla*													X
	Sida ?*fibulifera*													
	Sida ?*platycalyx*													
	Sida ?sp. Articulation below (A.A. Mitchell PRP 1605)													
	Sida ?sp. L (A.M. Ashby 4202)													
	Sida cardiophylla													
	Sida echinocarpa													
	Sida fibulifera													
	Sida sp.													
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)													
	Sida sp. Barlee Range (S. van Leeuwen 1642)													
	Sida sp. Excedentifolia (J.L. Egan 1925)													
	Sida sp. L (A.M. Ashby 4202)													
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)													
	Sida ?sp. Pilbara (A.A. Mitchell PRP 1543)	X												
	Sida ?sp. spiciform panicles (E. Leyland s.n. 14/8/90)	X												
	Triumfetta ?*leptacantha*													
	Triumfetta leptacantha													
	Triumfetta maconochieana													
	Triumfetta sp.													
	Waltheria indica					X								
Menispermaceae	*Tinospora smilacina*													
Molluginaceae	*Trigastrotheca molluginea*				X		X							
Moraceae	*Ficus brachypoda*													
Myrtaceae	*Calytrix carinata*											X		
	Corymbia ?*deserticola* subsp. *deserticola*								X					
	Corymbia ?*hamersleyana*							X						X
	Corymbia deserticola subsp. *deserticola*			X										
	Corymbia ferriticola													
	Corymbia hamersleyana	X		X			X					X		
	Corymbia deserticola ?subsp. *deserticola*													
	Eucalyptus ?*victrix*													
	Eucalyptus gamophylla								X		X			
	Eucalyptus kingsmillii								X					
	Eucalyptus leucophloia subsp. *leucophloia*		X	X			X		X	X	X	X	X	X
	Eucalyptus victrix													
	Eucalyptus ?*xerothermica*													
Nyctaginaceae	*Boerhavia coccinea*				X	X								
	Boerhavia sp.													
Oleaceae	*Jasminum didymum* subsp. *lineare*					X								
Phyllanthaceae	*Dendrophyllanthus erwinii*													
	Flueggea virosa subsp. *melanthesoides*													
	Nellica maderaspatensis				X	X								
	Notoleptopus decaisnei				X									
	Synostemon hamersleyensis													
Poaceae	**Cenchrus ciliaris*				X	X								
	**Cenchrus setiger*				X	X								
	**Setaria verticillata*				X									
	Amphipogon ?*sericeus*													
	Aristida ?*holathera* var. *holathera*													
	Aristida burbidgeae													

	Aristida contorta													
	Aristida holathera var. *holathera*													
	Aristida inaequiglumis	X												
	Aristida sp.													
	Brachyachne sp.													
	Chrysopogon fallax													
	Cymbopogon ambiguus				X	X					X			
	Cynanchum floribundum													
	Enneapogon caerulescens				X	X								
	Enneapogon lindleyanus													
	Enneapogon polyphyllus					X								
	Eragrostis eriopoda													
	Eragrostis olida													
	Eriachne aristidea	X												
	Eriachne lanata	X		X				X			X			X
	Eriachne mucronata				X	X					X			
	Eriachne pulchella subsp. *dominii*				X	X								
	Eriachne pulchella subsp. *pulchella*	X	X				X					X	X	
	Eulalia aurea											X		
	Neurachne muelleri													
	Panicum decompositum													
	Paspalidium clementii													
	Paspalidium tabulatum													
	Poaceae sp.													
	Themeda ?triandra													
	Themeda triandra													
	Triodia ?basedowii													
	Triodia ?epactia													
	Triodia ?epactia/pungens					X								
	Triodia ?vanleeuwenii													
	Triodia basedowii													
	Triodia brizoides													
	Triodia epactia													
	Triodia pungens				X	X								
	Triodia sp.													
	Triodia vanleeuwenii	X		X			X	X			X	X		X
	Triodia wiseana	X	X	X			X		X	X	X	X	X	
Portulacaceae	*Portulaca oleracea*													
Proteaceae	*Grevillea berryana*													
	Grevillea pyramidalis subsp. *leucadendron*													
	Grevillea wickhamii ?subsp.	X	X	X	X	X	X	X	X			X	X	
	Grevillea wickhamii subsp. *hispidula*										X			
	Hakea chordophylla	X		X			X	X			X	X		
	Hakea lorea subsp. *lorea*													
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*													
	Cheilanthes sp.													
Rubiaceae	*Dolichocarpa crouchiana*									X				X
	Dolichocarpa sp.													
	Psydrax latifolia													
Santalaceae	*Anthobolus leptomerioides*													
	Santalum lanceolatum													
	Santalum spicatum													
Sapindaceae	*Atalaya hemiglauca*					X								
	Dodonaea coriacea													
	Dodonaea lanceolata var. *lanceolata*													
	Dodonaea pachyneura													

	Dodonaea petiolaris													
Scrophulariaceae	*Eremophila ?jucunda* subsp. *pulcherrima*												X	
	Eremophila cuneifolia													
	Eremophila forrestii subsp. *forrestii*													
	Eremophila latrobei subsp. *filiformis*	X												
	Eremophila longifolia					X								
	Eremophila magnifica subsp. *magnifica*													
Solanaceae	*Nicotiana benthamiana*													
	Solanum ?lasiophyllum				X									
	Solanum ?phlomoides	X				X	X			X				
	Solanum cleistogamum													
	Solanum perarmatum													
	Solanum phlomoides													
	Solanum sp.													
Surianaceae	*Stylobasium spathulatum*													
Violaceae	*Afrohybanthus aurantiacus*				X	X					X			
Zygophyllaceae	*Tribulopis angustifolia*													
	Tribulus ?hirsutus													
	Tribulus ?macrocarpus													
	Tribulus ?platypterus													
	Tribulus astrocarpus													
	Tribulus macrocarpus													
	Tribulus sp.													
	Tribulus suberosus													
Indet.	Indet. sp.													

Family	Taxon	SGD016	SGD017	SGD018	SGD019	SGD020	SGD021	SGD022	SGD023	SGD024	SGD025	SGD026	SGD027	SGD028	SGD029	SGD030
Acanthaceae	*Dipteracanthus australasicus* subsp. *australasicus*															
	Rostellularia adscendens var. *latifolia*															
Aizoaceae	*Trianthema pilosum*															
	Trianthema triquetrum															
	Zaleya galericulata subsp. *galericulata*															
Amaranthaceae	**Aerva javanica*															
	Amaranthus cuspidifolius															
	Amaranthus undulatus															
	Gomphrena affinis subsp. *pilbarensis*															
	Gomphrena canescens subsp. *canescens*															
	Gomphrena cunninghamii															
	Gomphrena sp.															
	Ptilotus ?clementii															
	Ptilotus ?fusifomis															
	Ptilotus ?rotundifolius															
	Ptilotus astrolasius		X	X	X	X					X					
	Ptilotus calostachyus		X	X	X	X		X	X		X		X			
	Ptilotus clementii															
	Ptilotus exaltatus		X	X	X	X	X		X	X	X		X		X	X
	Ptilotus fusiformis															
	Ptilotus obovatus var. *obovatus*		X	X	X						X				X	
	Ptilotus polystachyus															
	Ptilotus rotundifolius															
	Ptilotus sp.	X					X		X					X		X
Apocynaceae	?*Leichhardtia australis*															
	Cynanchum floribundum															
	Cynanchum viminale subsp. *australe*															
	Vincetoxicum lineare		X		X											
Araliaceae	*Astrotricha hamptonii*															
	Trachymene oleracea subsp. *oleracea*															
	Trachymene sp.															
Asteraceae	*Pentalepis trichodesmoides* subsp. *trichodesmoides*															
	Peripleura virgata															
	Pluchea dunlopii															
	Pluchea tetranthera															
	Pterocaulon sp.															
	Pterocaulon sphacelatum		X													
	Streptoglossa decurrens															
Boraginaceae	*Ehretia saligna* var. *saligna*															
	Euploca ?chrysocarpa															
	Euploca cunninghamii										X					
	Euploca glabella															
	Euploca pachyphylla		X	X	X								X			
	Euploca sp.															
	Euploca tanythrix															
	Euploca tenuifolia															
	Trichodesma zeylanicum var. *zeylanicum*			X	X											
Brassicaceae	*Lepidium platypetalum*															
	Lepidium sp.															
Capparaceae	*Capparis lasiantha*															
	Capparis spinosa subsp. *nummularia*															
Caryophyllaceae	*Polycarpaea ?longiflora*															
	Polycarpaea longiflora															
	Polycarpaea sp.															
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)			X												

	Stackhousia sp.															
Chenopodiaceae	*Dysphania rhadinostachya* subsp. *rhadinostachya*															
	Enchylaena tomentosa var. *tomentosa*															
	Maireana ?tomentosa subsp. *tomentosa*															
	Maireana planifolia															
	Maireana sp.															
	Maireana tomentosa subsp. *tomentosa*															
	Rhagodia eremaea															
	Salsola australis															
	Sclerolaena cornishiana															
	Sclerolaena sp.															
Cleomaceae	*Arivela viscosa*			X	X	X										
Convolvulaceae	*Bonamia erecta*	X	X	X	X											
	Bonamia pilbarensis															
	Duperreya commixta										X		X		X	
	Evolvulus alsinoides var. *decumbens*															
	Evolvulus alsinoides var. *villosicalyx*		X		X						X				X	
	Polymeria ?ambigua															
	Polymeria mollis															
Cucurbitaceae	*Cucumis variabilis*			X												
Cyperaceae	*Cyperus cunninghamii* subsp. *cunninghamii*															
	Cyperus sp.															
	Fimbristylis simulans															
Euphorbiaceae	**Euphorbia hirta*															
	Euphorbia ?biconvexa			X												
	Euphorbia ?trigonosperma															
	Euphorbia australis var. *hispidula*															
	Euphorbia australis var. *subtomentosa*															
	Euphorbia biconvexa															
	Euphorbia careyi															
	Euphorbia tannensis subsp. *eremophila*		X	X							X		X		X	
	Euphorbia trigonosperma															
	Euphorbia vaccaria ?var. *vaccaria*										X					
Fabaceae	*Acacia ?adsurgens*															
	Acacia ?aneura															
	Acacia ?aptaneura															
	Acacia ?elachantha															
	Acacia ?paraneura															
	Acacia adoxa var. *adoxa*							X				X				
	Acacia adoxa var. *adoxa* x *Acacia spondylophylla*															
	Acacia adsurgens		X													
	Acacia ancistrocarpa															
	Acacia aptaneura															
	Acacia arida															
	Acacia atkinsiana															
	Acacia bivenosa					X							X			
	Acacia colei var. *colei*															
	Acacia dictyophleba		X	X												
	Acacia elachantha															
	Acacia hamersleyensis											X				
	Acacia hilliana						X	X	X	X		X		X		X
	Acacia inaequilatera		X	X	X			X			X		X		X	
	Acacia maitlandii													X		
	Acacia marramamba															
	Acacia monticola							X		X						
	Acacia pachyacra	X														

	Acacia pruinocarpa									X						
	Acacia pyrifolia ?var.															
	Acacia pyrifolia ?var. *pyrifolia*															
	Acacia pyrifolia var. *pyrifolia*										X				X	
	Acacia rhodophloia															
	Acacia sclerosperma subsp. *sclerosperma*															
	Acacia sericophylla		X		X										X	
	Acacia sp.															
	Acacia sp. (aneura complex)															
	Acacia spondylophylla	X					X	X	X	X			X	X		X
	Acacia synchronicia															
	Acacia tenuissima		X													
	Acacia trachycarpa															
	Acacia trudgeniana															
	Acacia tumida ?var.															
	Acacia tumida var. *pilbarensis*										X					
	Acacia wanyu															
	Acacia xiphophylla															
	Cajanus ?*cinereus*															
	Crotalaria medicaginea var. *neglecta*			X												
	Crotalaria novae-hollandiae subsp. *novae-hollandiae*															
	Cullen pustulatum															
	Glycine canescens															
	Gompholobium oreophilum											X		X		X
	Indigofera ?*fractiflexa*															
	Indigofera colutea															
	Indigofera monophylla		X	X	X				X		X			X		X
	Indigofera sp.															
	Isotropis atropurpurea															
	Mirbelia viminalis	X														X
	Petalostylis labicheoides						X				X	X	X		X	X
	Rhynchosia bungarensis															
	Rhynchosia minima		X	X												
	Senna ?*glaucifolia*															
	Senna artemisioides subsp. *helmsii*		X		X	X									X	
	Senna artemisioides subsp. *oligophylla*		X	X	X						X		X		X	
	Senna glaucifolia								X							
	Senna glutinosa subsp. ×*luerssenii*		X		X								X			
	Senna glutinosa subsp. *glutinosa*					X		X	X		X		X			
	Senna glutinosa subsp. *glutinosa* ?*x*															
	Senna glutinosa subsp. *pruinosa*					X										
	Senna notabilis															
	Senna sp.															
	Senna stricta															
	Senna venusta															
	Swainsona formosa															
	Templetonia hookeri															
	Tephrosia ?*densa*															
	Tephrosia ?*rosea* var. Fortescue Creeks (M.I.H Brooker 2186)			X												
	Tephrosia arenicola															
	Tephrosia densa															
	Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)										X				X	
	Tephrosia sp.		X													
	Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)															
	Tephrosia virens															
Goodeniaceae	?*Goodenia stobbsiana*					X								X		

	Dampiera candicans													X		
	Goodenia ?stobbsiana															
	Goodenia ?triodiophila															
	Goodenia cusackiana															
	Goodenia microptera		X	X	X											
	Goodenia muelleriana															
	Goodenia sp.					X										
	Goodenia stobbsiana							X								
	Goodenia triodiophila															
	Scaevola ?browniana															
	Scaevola browniana subsp. *browniana*								X			X		X		X
	Scaevola parvifolia subsp. *?pilbarae*															
	Scaevola parvifolia subsp. *pilbarae*												X			
	Scaevola spinescens															
Gyrostemonaceae	*Codonocarpus cotinifolius*															
Lamiaceae	*Clerodendrum ?tomentosum* var. *lanceolatum*															
	Clerodendrum floribundum var. *angustifolium*															
	Clerodendrum sp.									X					X	
	Dicrastylis cordifolia															
	Newcastelia clavipetala															
Lauraceae	*Cassytha capillaris*															
Loranthaceae	*Diplatia grandibractea*															
Malvaceae	**Malvastrum americanum*															
	?Abutilon sp.															
	Abutilon ?sp. Dioicum (A.A. Mitchell PRP 1618)															
	Abutilon fraseri subsp. *fraseri*															
	Abutilon lepidum															
	Abutilon macrum															
	Abutilon otocarpum															
	Abutilon sp.		X	X												
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)															
	Abutilon sp.		X	X												
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)															
	Androcalva luteiflora															
	Brachychiton acuminatus															
	Corchorus ?lasiocarpus subsp. *lasiocarpus*						X									
	Corchorus ?tectus															
	Corchorus aff. *tectus*				X											
	Corchorus crozophorifolius															X
	Corchorus incanus subsp. *lithophilus*															
	Corchorus lasiocarpus ?subsp. *parvus*															
	Corchorus lasiocarpus subsp. *lasiocarpus*		X	X												
	Corchorus sp.								X						X	
	Corchorus tridens															
	Corchorus lasiocarpus ?subsp. *lasiocarpus*										X		X			
	Gossypium australe															
	Gossypium robinsonii										X					
	Hibiscus ?brachychlaenus															
	Hibiscus burtonii															
	Hibiscus coatesii					X										
	Hibiscus leptocladus															
	Hibiscus sp.															
	Hibiscus sp. Gardneri (A.L. Payne PRP 1435)															
	Hibiscus sp. Mt Robinson (G. Byrne 3537)															
	Hibiscus sturtii var. *campylochlamys*															
	Hibiscus sturtii var. *platychlamys*															
	Malvaceae sp.															
	Melhania oblongifolia		X	X												

	Seringia exastia															
	Sida ?*arenicola*															
	Sida ?*cardiophylla*															
	Sida ?*fibulifera*															
	Sida ?*platycalyx*															
	Sida ?sp. Articulation below (A.A. Mitchell PRP 1605)				X											
	Sida ?sp. L (A.M. Ashby 4202)														X	
	Sida cardiophylla															
	Sida echinocarpa															
	Sida fibulifera															
	Sida sp.				X					X						
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)															
	Sida sp. Barlee Range (S. van Leeuwen 1642)															
	Sida sp. Excedentifolia (J.L. Egan 1925)															
	Sida sp. L (A.M. Ashby 4202)															
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)															
	Sida ?sp. Pilbara (A.A. Mitchell PRP 1543)															
	Sida ?sp. spiciform panicles (E. Leyland s.n. 14/8/90)															
	Triumfetta ?*leptacantha*															
	Triumfetta leptacantha															
	Triumfetta maconochieana															
	Triumfetta sp.															
	Waltheria indica															
Menispermaceae	*Tinospora smilacina*															
Molluginaceae	*Trigastrotheca molluginea*		X	X	X						X		X			
Moraceae	*Ficus brachypoda*															
Myrtaceae	*Calytrix carinata*						X		X			X		X		
	Corymbia ?*deserticola* subsp. *deserticola*															
	Corymbia ?*hamersleyana*															
	Corymbia deserticola subsp. *deserticola*															
	Corymbia ferriticola															
	Corymbia hamersleyana	X	X	X	X			X	X	X	X		X		X	
	Corymbia deserticola ?subsp. *deserticola*															
	Eucalyptus ?*victrix*															
	Eucalyptus gamophylla	X	X	X	X							X	X		X	X
	Eucalyptus kingsmillii											X				
	Eucalyptus leucophloia subsp. *leucophloia*	X				X	X	X	X	X		X	X	X		X
	Eucalyptus victrix															
	Eucalyptus ?*xerothermica*															
Nyctaginaceae	*Boerhavia coccinea*															
	Boerhavia sp.															
Oleaceae	*Jasminum didymum* subsp. *lineare*		X	X	X					X	X				X	
Phyllanthaceae	*Dendrophyllanthus erwinii*															
	Flueggea virosa subsp. *melanthesoides*															
	Nellica maderaspatensis															
	Notoleptopus decaisnei															
	Synostemon hamersleyensis															
Poaceae	**Cenchrus ciliaris*				X						X				X	
	**Cenchrus setiger*															
	**Setaria verticillata*			X												
	Amphipogon ?*sericeus*															
	Aristida ?*holathera* var. *holathera*				X									X		
	Aristida burbidgeae															
	Aristida contorta		X	X	X						X					
	Aristida holathera var. *holathera*									X			X		X	
	Aristida inaequiglumis										X					

	Aristida sp.															
	Brachyachne sp.															
	Chrysopogon fallax														X	
	Cymbopogon ambiguus															
	Cynanchum floribundum															
	Enneapogon caerulescens															
	Enneapogon lindleyanus									X	X					
	Enneapogon polyphyllus										X				X	
	Eragrostis eriopoda		X		X										X	
	Eragrostis olida															
	Eriachne aristidea			X											X	
	Eriachne lanata	X						X	X	X						X
	Eriachne mucronata			X				X	X	X						
	Eriachne pulchella subsp. *dominii*															
	Eriachne pulchella subsp. *pulchella*						X		X		X	X				
	Eulalia aurea		X	X												
	Neurachne muelleri		X				X		X	X	X			X	X	
	Panicum decompositum															
	Paspalidium clementii															
	Paspalidium tabulatum															
	Poaceae sp.															
	Themeda ?triandra															
	Themeda triandra															
	Triodia ?basedowii		X	X	X								X			
	Triodia ?epactia															
	Triodia ?epactia/pungens			X												
	Triodia ?vanleeuwenii															X
	Triodia basedowii															
	Triodia brizoides															
	Triodia epactia				X											
	Triodia pungens					X		X			X		X		X	
	Triodia sp.															
	Triodia vanleeuwenii							X	X				X	X		
	Triodia wiseana	X					X		X	X		X				X
Portulacaceae	*Portulaca oleracea*															
Proteaceae	*Grevillea berryana*															
	Grevillea pyramidalis subsp. *leucadendron*										X					
	Grevillea wickhamii ?subsp.	X			X		X	X	X	X	X	X	X	X		X
	Grevillea wickhamii subsp. *hispidula*			X		X										
	Hakea chordophylla						X	X				X	X	X		X
	Hakea lorea subsp. *lorea*			X	X								X		X	
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*															
	Cheilanthes sp.															
Rubiaceae	*Dolichocarpa crouchiana*					X										
	Dolichocarpa sp.													X		
	Psydrax latifolia															
Santalaceae	*Anthobolus leptomerioides*				X											
	Santalum lanceolatum									X	X	X			X	
	Santalum spicatum															
Sapindaceae	*Atalaya hemiglauca*										X				X	
	Dodonaea coriacea															
	Dodonaea lanceolata var. *lanceolata*															
	Dodonaea pachyneura															
	Dodonaea petiolaris												X			
Scrophulariaceae	*Eremophila ?jucunda* subsp. *pulcherrima*															
	Eremophila cuneifolia															

	Eremophila forrestii subsp. *forrestii*															
	Eremophila latrobei subsp. *filiformis*															
	Eremophila longifolia		X													
	Eremophila magnifica subsp. *magnifica*															
Solanaceae	*Nicotiana benthamiana*															
	Solanum ?lasiophyllum															
	Solanum ?phlomoides					X										
	Solanum cleistogamum															
	Solanum perarmatum															
	Solanum phlomoides															
	Solanum sp.								X							
Surianaceae	*Stylobasium spathulatum*															
Violaceae	*Afrohybanthus aurantiacus*		X	X	X						X		X		X	
Zygophyllaceae	*Tribulopis angustifolia*															
	Tribulus ?hirsutus															
	Tribulus ?macrocarpus															
	Tribulus ?platypterus															
	Tribulus astrocarpus															
	Tribulus macrocarpus															
	Tribulus sp.															
	Tribulus suberosus					X										
Indet.	Indet. sp.															

Family	Taxon	SGD031	SGD032	SGD033	SGD034	SGD035	SGD036	SGD037	SGD040	SGD041	SGD042	SGD043	SGD044	SGD045
Acanthaceae	*Dipteracanthus australasicus* subsp. *australasicus*					X								
	Rostellularia adscendens var. *latifolia*													
Aizoaceae	*Trianthema pilosum*													
	Trianthema triquetrum													X
	Zaleya galericulata subsp. *galericulata*													
Amaranthaceae	**Aerva javanica*													
	Amaranthus cuspidifolius													
	Amaranthus undulatus													
	Gomphrena affinis subsp. *pilbarensis*													
	Gomphrena canescens subsp. *canescens*													
	Gomphrena cunninghamii		X									X		
	Gomphrena sp.													
	Ptilotus ?clementii													
	Ptilotus ?fusifomis													
	Ptilotus ?rotundifolius													
	Ptilotus astrolasius		X	X										
	Ptilotus calostachyus		X	X	X	X			X	X	X	X	X	
	Ptilotus clementii													
	Ptilotus exaltatus	X		X	X		X	X	X	X	X	X	X	X
	Ptilotus fusiformis			X					X					
	Ptilotus obovatus var. *obovatus*				X	X						X		
	Ptilotus polystachyus													
	Ptilotus rotundifolius													
	Ptilotus sp.	X	X			X	X							
Apocynaceae	?*Leichhardtia australis*							X						
	Cynanchum floribundum													
	Cynanchum viminale subsp. *australe*													
	Vincetoxicum lineare													
Araliaceae	*Astrotricha hamptonii*													
	Trachymene oleracea subsp. *oleracea*													
	Trachymene sp.													
Asteraceae	*Pentalepis trichodesmoides* subsp. *trichodesmoides*													
	Peripleura virgata													
	Pluchea dunlopii													
	Pluchea tetranthera													
	Pterocaulon sp.													
	Pterocaulon sphacelatum													
	Streptoglossa decurrens													
Boraginaceae	*Ehretia saligna* var. *saligna*													
	Euploca ?chrysocarpa													
	Euploca cunninghamii												X	
	Euploca glabella			X										
	Euploca pachyphylla						X							
	Euploca sp.													
	Euploca tanythrix													
	Euploca tenuifolia													
	Trichodesma zeylanicum var. *zeylanicum*		X	X		X							X	
Brassicaceae	*Lepidium platypetalum*													X
	Lepidium sp.													
Capparaceae	*Capparis lasiantha*													
	Capparis spinosa subsp. *nummularia*		X											
Caryophyllaceae	*Polycarpaea ?longiflora*													
	Polycarpaea longiflora		X											
	Polycarpaea sp.					X						X		
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)											X		

	Stackhousia sp.	X												
Chenopodiaceae	*Dysphania rhadinostachya* subsp. *rhadinostachya*													
	Enchylaena tomentosa var. *tomentosa*													
	Maireana ?tomentosa subsp. *tomentosa*													
	Maireana planifolia													
	Maireana sp.													
	Maireana tomentosa subsp. *tomentosa*													
	Rhagodia eremaea													
	Salsola australis					X								X
	Sclerolaena cornishiana													
	Sclerolaena sp.													X
Cleomaceae	*Arivela viscosa*		X									X		
Convolvulaceae	*Bonamia erecta*				X			X	X				X	
	Bonamia pilbarensis													
	Duperreya commixta		X	X	X	X		X				X		
	Evolvulus alsinoides var. *decumbens*													
	Evolvulus alsinoides var. *villosicalyx*			X	X	X								
	Polymeria ?ambigua													
	Polymeria mollis													
Cucurbitaceae	*Cucumis variabilis*		X	X		X			X					
Cyperaceae	*Cyperus cunninghamii* subsp. *cunninghamii*		X											
	Cyperus sp.													
	Fimbristylis simulans								X					
Euphorbiaceae	**Euphorbia hirta*													
	Euphorbia ?biconvexa													
	Euphorbia ?trigonosperma													
	Euphorbia australis var. *hispidula*													
	Euphorbia australis var. *subtomentosa*													
	Euphorbia biconvexa		X											
	Euphorbia careyi		X											
	Euphorbia tannensis subsp. *eremophila*			X		X						X		
	Euphorbia trigonosperma													
	Euphorbia vaccaria ?var. *vaccaria*													
Fabaceae	*Acacia ?adsurgens*													
	Acacia ?aneura													
	Acacia ?aptaneura													
	Acacia ?elachantha													
	Acacia ?paraneura													
	Acacia adoxa var. *adoxa*	X								X				
	Acacia adoxa var. *adoxa* x *Acacia spondylophylla*													
	Acacia adsurgens													
	Acacia ancistrocarpa													
	Acacia aptaneura													
	Acacia arida							X	X					
	Acacia atkinsiana													
	Acacia bivenosa													X
	Acacia colei var. *colei*													
	Acacia dictyophleba				X									
	Acacia elachantha													
	Acacia hamersleyensis		X				X	X						
	Acacia hilliana													
	Acacia inaequilatera				X				X		X		X	
	Acacia maitlandii	X	X	X				X			X			
	Acacia marramamba													
	Acacia monticola		X	X										
	Acacia pachyacra													

	Acacia pruinocarpa		X					X		X				
	Acacia pyrifolia ?var.													
	Acacia pyrifolia ?var. *pyrifolia*											X		
	Acacia pyrifolia var. *pyrifolia*	X		X	X	X								
	Acacia rhodophloia													
	Acacia sclerosperma subsp. *sclerosperma*													
	Acacia sericophylla													
	Acacia sp.							X						
	Acacia sp. (aneura complex)						X	X						X
	Acacia spondylophylla	X		X			X		X	X				
	Acacia synchronicia													
	Acacia tenuissima									X	X			
	Acacia trachycarpa													
	Acacia trudgeniana							X						
	Acacia tumida ?var.											X		
	Acacia tumida var. *pilbarensis*		X	X	X	X							X	
	Acacia wanyu													
	Acacia xiphophylla													X
	Cajanus ?*cinereus*		X			X								
	Crotalaria medicaginea var. *neglecta*		X											
	Crotalaria novae-hollandiae subsp. *novae-hollandiae*													
	Cullen pustulatum												X	
	Glycine canescens													
	Gompholobium oreophilum		X	X										
	Indigofera ?*fractiflexa*													
	Indigofera colutea													
	Indigofera monophylla		X	X	X	X						X	X	
	Indigofera sp.													
	Isotropis atropurpurea													
	Mirbelia viminalis						X			X				
	Petalostylis labicheoides		X	X	X	X			X		X	X		
	Rhynchosia bungarensis		X											
	Rhynchosia minima					X							X	
	Senna ?*glaucifolia*	X												
	Senna artemisioides subsp. *helmsii*				X	X								
	Senna artemisioides subsp. *oligophylla*		X		X			X		X		X	X	
	Senna glaucifolia													
	Senna glutinosa subsp. ×*luerssenii*													X
	Senna glutinosa subsp. *glutinosa*	X		X		X		X					X	
	Senna glutinosa subsp. *glutinosa* ?*x*													
	Senna glutinosa subsp. *pruinosa*													
	Senna notabilis		X	X									X	
	Senna sp.													
	Senna stricta													X
	Senna venusta		X											
	Swainsona formosa													
	Templetonia hookeri													
	Tephrosia ?*densa*													
	Tephrosia ?*rosea* var. Fortescue Creeks (M.I.H Brooker 2186)													
	Tephrosia arenicola		X					X	X	X				
	Tephrosia densa			X									X	
	Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)				X	X								
	Tephrosia sp.											X		
	Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)													
	Tephrosia virens		X											
Goodeniaceae	?*Goodenia stobbsiana*													

	Dampiera candicans	X					X				X		X	
	Goodenia ?stobbsiana													
	Goodenia ?triodiophila													
	Goodenia cusackiana								X					
	Goodenia microptera													
	Goodenia muelleriana													
	Goodenia sp.													
	Goodenia stobbsiana		X										X	
	Goodenia triodiophila													
	Scaevola ?browniana													
	Scaevola browniana subsp. *browniana*					X	X		X				X	
	Scaevola parvifolia subsp. *?pilbarae*													
	Scaevola parvifolia subsp. *pilbarae*													
	Scaevola spinescens				X	X								
Gyrostemonaceae	*Codonocarpus cotinifolius*													
Lamiaceae	*Clerodendrum ?tomentosum* var. *lanceolatum*		X											
	Clerodendrum floribundum var. *angustifolium*				X							X		
	Clerodendrum sp.					X								
	Dicrastylis cordifolia			X									X	
	Newcastelia clavipetala													
Lauraceae	*Cassytha capillaris*													
Loranthaceae	*Diplatia grandibractea*													
Malvaceae	**Malvastrum americanum*													
	?Abutilon sp.													
	Abutilon ?sp. Dioicum (A.A. Mitchell PRP 1618)													
	Abutilon fraseri subsp. *fraseri*													
	Abutilon lepidum													
	Abutilon macrum													
	Abutilon otocarpum													
	Abutilon sp.		X	X	X	X						X		
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)		X											
	Androcalva luteiflora													
	Brachychiton acuminatus													
	Corchorus ?lasiocarpus subsp. *lasiocarpus*					X								
	Corchorus ?tectus													
	Corchorus aff. *tectus*													
	Corchorus crozophorifolius											X		
	Corchorus incanus subsp. *lithophilus*													
	Corchorus lasiocarpus ?subsp. *parvus*												X	
	Corchorus lasiocarpus subsp. *lasiocarpus*								X		X			
	Corchorus sp.													
	Corchorus tridens													
	Corchorus lasiocarpus ?subsp. *lasiocarpus*		X	X	X	X								
	Gossypium australe				X									
	Gossypium robinsonii		X	X	X	X						X	X	
	Hibiscus ?brachychlaenus													
	Hibiscus burtonii			X										
	Hibiscus coatesii													
	Hibiscus leptocladus													
	Hibiscus sp.												X	
	Hibiscus sp. Gardneri (A.L. Payne PRP 1435)													X
	Hibiscus sp. Mt Robinson (G. Byrne 3537)		X	X										
	Hibiscus sturtii var. *campylochlamys*			X										
	Hibiscus sturtii var. *platychlamys*													
	Malvaceae sp.		X	X	X									
	Melhania oblongifolia													

	Seringia exastia													
	Sida ?*arenicola*												X	
	Sida ?*cardiophylla*													
	Sida ?*fibulifera*					X								
	Sida ?*platycalyx*													
	Sida ?sp. Articulation below (A.A. Mitchell PRP 1605)	X												
	Sida ?sp. L (A.M. Ashby 4202)				X									
	Sida cardiophylla													
	Sida echinocarpa													
	Sida fibulifera													
	Sida sp.													
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)		X			X								
	Sida sp. Barlee Range (S. van Leeuwen 1642)													
	Sida sp. Excedentifolia (J.L. Egan 1925)							X						
	Sida sp. L (A.M. Ashby 4202)													
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)													
	Sida ?sp. Pilbara (A.A. Mitchell PRP 1543)	X												
	Sida ?sp. spiciform panicles (E. Leyland s.n. 14/8/90)			X										
	Triumfetta ?*leptacantha*													
	Triumfetta leptacantha													
	Triumfetta maconochieana													
	Triumfetta sp.													
	Waltheria indica			X		X								
Menispermaceae	*Tinospora smilacina*													
Molluginaceae	*Trigastrotheca molluginea*												X	
Moraceae	*Ficus brachypoda*		X											
Myrtaceae	*Calytrix carinata*							X		X				
	Corymbia ?*deserticola* subsp. *deserticola*									X	X			
	Corymbia ?*hamersleyana*							X						
	Corymbia deserticola subsp. *deserticola*													
	Corymbia ferriticola		X											
	Corymbia hamersleyana			X	X	X			X	X	X		X	
	Corymbia deserticola ?subsp. *deserticola*													
	Eucalyptus ?*victrix*													
	Eucalyptus gamophylla				X		X			X			X	
	Eucalyptus kingsmillii						X			X				
	Eucalyptus leucophloia subsp. *leucophloia*	X					X	X			X			
	Eucalyptus victrix													
	Eucalyptus ?*xerothermica*				X									
Nyctaginaceae	*Boerhavia coccinea*											X		
	Boerhavia sp.				X									
Oleaceae	*Jasminum didymum* subsp. *lineare*		X		X	X					X	X		
Phyllanthaceae	*Dendrophyllanthus erwinii*													
	Flueggea virosa subsp. *melanthesoides*													
	Nellica maderaspatensis			X										
	Notoleptopus decaisnei		X											
	Synostemon hamersleyensis													
Poaceae	**Cenchrus ciliaris*		X		X	X						X		
	**Cenchrus setiger*													
	**Setaria verticillata*													
	Amphipogon ?*sericeus*						X			X				
	Aristida ?*holathera* var. *holathera*	X					X							
	Aristida burbidgeae		X											
	Aristida contorta				X				X			X		
	Aristida holathera var. *holathera*			X		X							X	
	Aristida inaequiglumis		X	X	X								X	

	Aristida sp.													
	Brachyachne sp.													
	Chrysopogon fallax				X									
	Cymbopogon ambiguus		X	X	X	X					X			
	Cynanchum floribundum													
	Enneapogon caerulescens											X		
	Enneapogon lindleyanus		X		X	X								
	Enneapogon polyphyllus		X			X						X		
	Eragrostis eriopoda				X								X	
	Eragrostis olida													
	Eriachne aristidea												X	
	Eriachne lanata	X						X	X		X			
	Eriachne mucronata		X	X		X	X		X		X			
	Eriachne pulchella subsp. *dominii*													
	Eriachne pulchella subsp. *pulchella*													
	Eulalia aurea			X	X	X							X	
	Neurachne muelleri	X	X	X	X	X			X	X			X	
	Panicum decompositum													
	Paspalidium clementii		X	X		X								
	Paspalidium tabulatum													
	Poaceae sp.													
	Themeda ?triandra			X										
	Themeda triandra		X		X	X						X		
	Triodia ?basedowii													
	Triodia ?epactia													
	Triodia ?epactia/pungens													
	Triodia ?vanleeuwenii													
	Triodia basedowii													
	Triodia brizoides							X						
	Triodia epactia											X	X	X
	Triodia pungens		X	X	X	X								
	Triodia sp.													
	Triodia vanleeuwenii	X						X	X	X	X		X	
	Triodia wiseana						X	X	X	X	X		X	X
Portulacaceae	*Portulaca oleracea*													
Proteaceae	*Grevillea berryana*													
	Grevillea pyramidalis subsp. *leucadendron*													
	Grevillea wickhamii ?subsp.	X	X	X	X	X	X	X	X	X	X		X	
	Grevillea wickhamii subsp. *hispidula*											X		
	Hakea chordophylla	X					X	X		X				
	Hakea lorea subsp. *lorea*				X						X			
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*													
	Cheilanthes sp.													
Rubiaceae	*Dolichocarpa crouchiana*		X				X		X		X	X	X	
	Dolichocarpa sp.													
	Psydrax latifolia	X	X											
Santalaceae	*Anthobolus leptomerioides*													
	Santalum lanceolatum		X	X	X	X						X		
	Santalum spicatum													
Sapindaceae	*Atalaya hemiglauca*		X		X							X		
	Dodonaea coriacea													
	Dodonaea lanceolata var. *lanceolata*													
	Dodonaea pachyneura		X											
	Dodonaea petiolaris													
Scrophulariaceae	*Eremophila ?jucunda* subsp. *pulcherrima*													
	Eremophila cuneifolia													X

	Eremophila forrestii subsp. *forrestii*													
	Eremophila latrobei subsp. *filiformis*													X
	Eremophila longifolia				X									
	Eremophila magnifica subsp. *magnifica*													
Solanaceae	*Nicotiana benthamiana*													
	Solanum ?lasiophyllum													
	Solanum ?phlomoides						X						X	
	Solanum cleistogamum		X	X		X								
	Solanum perarmatum													
	Solanum phlomoides		X	X		X								
	Solanum sp.	X											X	
Surianaceae	*Stylobasium spathulatum*		X	X	X							X		
Violaceae	*Afrohybanthus aurantiacus*		X	X	X	X						X	X	
Zygophyllaceae	*Tribulopis angustifolia*													
	Tribulus ?hirsutus													
	Tribulus ?macrocarpus													
	Tribulus ?platypterus													
	Tribulus astrocarpus													
	Tribulus macrocarpus													
	Tribulus sp.				X									
	Tribulus suberosus	X												X
Indet.	Indet. sp.											X		

Family	Taxon	SGD046	SGD047	SGD048	SGD049	SGD050	SGD051	SGD052	SGD053	SGD054	SGD055	SGD056	SGD057	SGD058	SGD059	SGD060
Acanthaceae	*Dipteracanthus australasicus* subsp. *australasicus*															
	Rostellularia adscendens var. *latifolia*															
Aizoaceae	*Trianthema pilosum*															
	Trianthema triquetrum	X														
	Zaleya galericulata subsp. *galericulata*															
Amaranthaceae	**Aerva javanica*															
	Amaranthus cuspidifolius															
	Amaranthus undulatus															
	Gomphrena affinis subsp. *pilbarensis*															
	Gomphrena canescens subsp. *canescens*															
	Gomphrena cunninghamii								X							
	Gomphrena sp.					X			X							
	Ptilotus ?clementii															
	Ptilotus ?fusifomis		X													
	Ptilotus ?rotundifolius									X						
	Ptilotus astrolasius		X				X			X						
	Ptilotus calostachyus						X				X			X	X	X
	Ptilotus clementii															
	Ptilotus exaltatus	X	X	X	X		X	X	X	X	X	X	X	X	X	X
	Ptilotus fusiformis										X				X	
	Ptilotus obovatus var. *obovatus*		X	X	X		X	X			X					X
	Ptilotus polystachyus															
	Ptilotus rotundifolius															
	Ptilotus sp.		X	X	X		X	X		X			X			
Apocynaceae	?*Leichhardtia australis*															
	Cynanchum floribundum															
	Cynanchum viminale subsp. *australe*															
	Vincetoxicum lineare															
Araliaceae	*Astrotricha hamptonii*															
	Trachymene oleracea subsp. *oleracea*															
	Trachymene sp.															
Asteraceae	*Pentalepis trichodesmoides* subsp. *trichodesmoides*															
	Peripleura virgata															
	Pluchea dunlopii															
	Pluchea tetranthera				X											
	Pterocaulon sp.											X				
	Pterocaulon sphacelatum															
	Streptoglossa decurrens		X													
Boraginaceae	*Ehretia saligna* var. *saligna*															
	Euploca ?chrysocarpa															
	Euploca cunninghamii															
	Euploca glabella															X
	Euploca pachyphylla															
	Euploca sp.		X													
	Euploca tanythrix															
	Euploca tenuifolia															
	Trichodesma zeylanicum var. *zeylanicum*		X					X	X						X	
Brassicaceae	*Lepidium platypetalum*	X														
	Lepidium sp.															
Capparaceae	*Capparis lasiantha*											X				
	Capparis spinosa subsp. *nummularia*					X						X				
Caryophyllaceae	*Polycarpaea ?longiflora*							X								
	Polycarpaea longiflora															

	Polycarpaea sp.		X						X		X				X	
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)															
	Stackhousia sp.															
Chenopodiaceae	*Dysphania rhadinostachya* subsp. *rhadinostachya*															
	Enchylaena tomentosa var. *tomentosa*															
	Maireana ?tomentosa subsp. *tomentosa*															
	Maireana planifolia	X														
	Maireana sp.															
	Maireana tomentosa subsp. *tomentosa*															
	Rhagodia eremaea															
	Salsola australis															
	Sclerolaena cornishiana															
	Sclerolaena sp.	X														
Cleomaceae	*Arivela viscosa*		X					X	X		X	X			X	
Convolvulaceae	*Bonamia erecta*										X			X	X	
	Bonamia pilbarensis															
	Duperreya commixta		X			X		X			X	X			X	
	Evolvulus alsinoides var. *decumbens*															
	Evolvulus alsinoides var. *villosicalyx*		X					X							X	
	Polymeria ?ambigua															
	Polymeria mollis								X							
Cucurbitaceae	*Cucumis variabilis*		X					X			X	X			X	
Cyperaceae	*Cyperus cunninghamii* subsp. *cunninghamii*											X				
	Cyperus sp.															
	Fimbristylis simulans													X		X
Euphorbiaceae	**Euphorbia hirta*															
	Euphorbia ?biconvexa										X					
	Euphorbia ?trigonosperma					X										
	Euphorbia australis var. *hispidula*															
	Euphorbia australis var. *subtomentosa*															
	Euphorbia biconvexa		X													
	Euphorbia careyi		X						X		X				X	
	Euphorbia tannensis subsp. *eremophila*							X	X		X				X	
	Euphorbia trigonosperma															
	Euphorbia vaccaria ?var. *vaccaria*															
Fabaceae	*Acacia ?adsurgens*															
	Acacia ?aneura															
	Acacia ?aptaneura	X														
	Acacia ?elachantha						X									
	Acacia ?paraneura											X				
	Acacia adoxa var. *adoxa*														X	X
	Acacia adoxa var. *adoxa* x *Acacia spondylophylla*															
	Acacia adsurgens															
	Acacia ancistrocarpa															
	Acacia aptaneura															
	Acacia arida				X	X					X		X			
	Acacia atkinsiana															
	Acacia bivenosa	X	X		X	X										
	Acacia colei var. *colei*															
	Acacia dictyophleba						X									
	Acacia elachantha															
	Acacia hamersleyensis															
	Acacia hilliana													X		X
	Acacia inaequilatera										X			X		
	Acacia maitlandii					X					X		X		X	X
	Acacia marramamba															

Acacia monticola					X					X	X			X	
Acacia pachyacra															
Acacia pruinocarpa			X						X		X				
Acacia pyrifolia ?var.															
Acacia pyrifolia ?var. *pyrifolia*															
Acacia pyrifolia var. *pyrifolia*		X					X	X		X					
Acacia rhodophloia															
Acacia sclerosperma subsp. *sclerosperma*															
Acacia sericophylla															
Acacia sp.					X										
Acacia sp. (aneura complex)					X										
Acacia spondylophylla					X				X			X			
Acacia synchronicia															
Acacia tenuissima						X							X		
Acacia trachycarpa															
Acacia trudgeniana															
Acacia tumida ?var.															
Acacia tumida var. *pilbarensis*		X			X		X	X	X	X	X		X	X	
Acacia wanyu															
Acacia xiphophylla	X														
Cajanus ?*cinereus*															
Crotalaria medicaginea var. *neglecta*															
Crotalaria novae-hollandiae subsp. *novae-hollandiae*								X							
Cullen pustulatum															
Glycine canescens															
Gompholobium oreophilum												X	X		
Indigofera ?*fractiflexa*															
Indigofera colutea															
Indigofera monophylla		X					X	X		X			X	X	
Indigofera sp.															
Isotropis atropurpurea															
Mirbelia viminalis												X			
Petalostylis labicheoides		X			X										
Rhynchosia bungarensis															
Rhynchosia minima		X									X				
Senna ?*glaucifolia*									X						
Senna artemisioides subsp. *helmsii*	X												X		
Senna artemisioides subsp. *oligophylla*					X		X	X		X					
Senna glaucifolia															
Senna glutinosa subsp. ×*luerssenii*	X					X									
Senna glutinosa subsp. *glutinosa*		X	X	X		X				X			X	X	
Senna glutinosa subsp. *glutinosa* ?*x*															
Senna glutinosa subsp. *pruinosa*															X
Senna notabilis		X													X
Senna sp.															
Senna stricta	X														
Senna venusta					X				X		X				
Swainsona formosa															
Templetonia hookeri															
Tephrosia ?*densa*								X		X				X	
Tephrosia ?*rosea* var. Fortescue Creeks (M.I.H Brooker 2186)															
Tephrosia arenicola									X			X			
Tephrosia densa							X								
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)		X													
Tephrosia sp.															
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)															

	Tephrosia virens															
Goodeniaceae	?*Goodenia stobbsiana*												X	X		
	Dampiera candicans											X				X
	Goodenia ?*stobbsiana*															X
	Goodenia ?*triodiophila*															
	Goodenia cusackiana						X									
	Goodenia microptera															
	Goodenia muelleriana				X											
	Goodenia sp.															
	Goodenia stobbsiana															
	Goodenia triodiophila			X										X		
	Scaevola ?*browniana*															
	Scaevola browniana subsp. *browniana*													X		
	Scaevola parvifolia subsp. ?*pilbarae*															
	Scaevola parvifolia subsp. *pilbarae*															
	Scaevola spinescens		X													
Gyrostemonaceae	*Codonocarpus cotinifolius*															
Lamiaceae	*Clerodendrum* ?*tomentosum* var. *lanceolatum*															
	Clerodendrum floribundum var. *angustifolium*					X		X								
	Clerodendrum sp.											X				
	Dicrastylis cordifolia															
	Newcastelia clavipetala															
Lauraceae	*Cassytha capillaris*		X													
Loranthaceae	*Diplatia grandibractea*															
Malvaceae	**Malvastrum americanum*															
	?*Abutilon* sp.								X							
	Abutilon ?sp. Dioicum (A.A. Mitchell PRP 1618)		X									X				
	Abutilon fraseri subsp. *fraseri*		X													
	Abutilon lepidum															
	Abutilon macrum															
	Abutilon otocarpum															
	Abutilon sp.					X		X								
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)		X													
	Androcalva luteiflora					X		X								
	Brachychiton acuminatus															
	Corchorus ?*lasiocarpus* subsp. *lasiocarpus*		X							X						
	Corchorus ?*tectus*															
	Corchorus aff. *tectus*															
	Corchorus crozophorifolius								X		X				X	
	Corchorus incanus subsp. *lithophilus*															
	Corchorus lasiocarpus ?subsp. *parvus*															
	Corchorus lasiocarpus subsp. *lasiocarpus*													X	X	
	Corchorus sp.					X		X								
	Corchorus tridens															
	Corchorus lasiocarpus ?subsp. *lasiocarpus*															
	Gossypium australe															
	Gossypium robinsonii		X			X		X	X		X				X	
	Hibiscus ?*brachychlaenus*															
	Hibiscus burtonii															
	Hibiscus coatesii		X								X					
	Hibiscus leptocladus															
	Hibiscus sp.															
	Hibiscus sp. Gardneri (A.L. Payne PRP 1435)															
	Hibiscus sp. Mt Robinson (G. Byrne 3537)											X				
	Hibiscus sturtii var. *campylochlamys*															
	Hibiscus sturtii var. *platychlamys*															

	Malvaceae sp.															
	Melhania oblongifolia															
	Seringia exastia															
	Sida ?*arenicola*															
	Sida ?*cardiophylla*															
	Sida ?*fibulifera*															
	Sida ?*platycalyx*															
	Sida ?sp. Articulation below (A.A. Mitchell PRP 1605)					X					X	X			X	
	Sida ?sp. L (A.M. Ashby 4202)															
	Sida cardiophylla															
	Sida echinocarpa															
	Sida fibulifera															
	Sida sp.			X								X				
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)		X													
	Sida sp. Barlee Range (S. van Leeuwen 1642)															
	Sida sp. Excedentifolia (J.L. Egan 1925)															
	Sida sp. L (A.M. Ashby 4202)															
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)															
	Sida ?sp. Pilbara (A.A. Mitchell PRP 1543)															
	Sida ?sp. spiciform panicles (E. Leyland s.n. 14/8/90)															
	Triumfetta ?*leptacantha*															
	Triumfetta leptacantha											X				
	Triumfetta maconochieana										X					
	Triumfetta sp.															
	Waltheria indica															
Menispermaceae	*Tinospora smilacina*											X			X	
Molluginaceae	*Trigastrotheca molluginea*													X		
Moraceae	*Ficus brachypoda*														X	
Myrtaceae	*Calytrix carinata*									X				X		
	Corymbia ?*deserticola* subsp. *deserticola*															
	Corymbia ?*hamersleyana*							X								
	Corymbia deserticola subsp. *deserticola*															
	Corymbia ferriticola					X						X				
	Corymbia hamersleyana		X			X	X		X	X	X			X	X	
	Corymbia deserticola ?subsp. *deserticola*															
	Eucalyptus ?*victrix*															
	Eucalyptus gamophylla							X								X
	Eucalyptus kingsmillii															
	Eucalyptus leucophloia subsp. *leucophloia*			X	X		X			X		X	X	X		X
	Eucalyptus victrix															
	Eucalyptus ?*xerothermica*															
Nyctaginaceae	*Boerhavia coccinea*															
	Boerhavia sp.															
Oleaceae	*Jasminum didymum* subsp. *lineare*		X						X						X	
Phyllanthaceae	*Dendrophyllanthus erwinii*															
	Flueggea virosa subsp. *melanthesoides*															
	Nellica maderaspatensis		X						X							
	Notoleptopus decaisnei		X						X						X	
	Synostemon hamersleyensis															
Poaceae	**Cenchrus ciliaris*		X					X	X		X	X				
	**Cenchrus setiger*															
	**Setaria verticillata*															
	Amphipogon ?*sericeus*															
	Aristida ?*holathera* var. *holathera*			X						X					X	
	Aristida burbidgeae											X				
	Aristida contorta								X		X			X		

	Aristida holathera var. *holathera*		X													
	Aristida inaequiglumis															
	Aristida sp.					X										
	Brachyachne sp.															
	Chrysopogon fallax															
	Cymbopogon ambiguus		X			X			X		X	X			X	
	Cynanchum floribundum															
	Enneapogon caerulescens							X	X		X				X	
	Enneapogon lindleyanus		X													
	Enneapogon polyphyllus		X								X					
	Eragrostis eriopoda										X					
	Eragrostis olida															
	Eriachne aristidea				X					X						
	Eriachne lanata			X	X							X				
	Eriachne mucronata		X			X	X	X	X		X	X		X	X	X
	Eriachne pulchella subsp. *dominii*				X						X					
	Eriachne pulchella subsp. *pulchella*													X		
	Eulalia aurea		X													
	Neurachne muelleri		X			X					X				X	
	Panicum decompositum															
	Paspalidium clementii		X			X										
	Paspalidium tabulatum											X			X	
	Poaceae sp.															
	Themeda ?triandra						X									
	Themeda triandra		X			X						X			X	
	Triodia ?basedowii															
	Triodia ?epactia															
	Triodia ?epactia/pungens								X			X				
	Triodia ?vanleeuwenii								X							
	Triodia basedowii															
	Triodia brizoides															
	Triodia epactia	X	X	X			X									
	Triodia pungens					X		X							X	
	Triodia sp.															
	Triodia vanleeuwenii	X		X	X					X			X	X		X
	Triodia wiseana	X			X					X	X		X	X		X
Portulacaceae	*Portulaca oleracea*															
Proteaceae	*Grevillea berryana*															
	Grevillea pyramidalis subsp. *leucadendron*															
	Grevillea wickhamii ?subsp.		X	X	X	X	X	X		X			X	X		X
	Grevillea wickhamii subsp. *hispidula*								X		X	X			X	
	Hakea chordophylla			X										X		X
	Hakea lorea subsp. *lorea*									X						
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*															
	Cheilanthes sp.					X										
Rubiaceae	*Dolichocarpa crouchiana*		X	X	X			X	X		X				X	X
	Dolichocarpa sp.															
	Psydrax latifolia					X						X				
Santalaceae	*Anthobolus leptomerioides*															
	Santalum lanceolatum	X	X			X		X	X		X				X	
	Santalum spicatum															
Sapindaceae	*Atalaya hemiglauca*		X					X			X	X				
	Dodonaea coriacea															
	Dodonaea lanceolata var. *lanceolata*															
	Dodonaea pachyneura					X						X				
	Dodonaea petiolaris											X				

Scrophulariaceae	*Eremophila ?jucunda* subsp. *pulcherrima*															
	Eremophila cuneifolia	X														
	Eremophila forrestii subsp. *forrestii*															
	Eremophila latrobei subsp. *filiformis*	X														
	Eremophila longifolia															
	Eremophila magnifica subsp. *magnifica*															
Solanaceae	*Nicotiana benthamiana*					X										
	Solanum ?lasiophyllum															
	Solanum ?phlomoides		X													X
	Solanum cleistogamum															
	Solanum perarmatum					X										
	Solanum phlomoides		X													
	Solanum sp.											X			X	
Surianaceae	*Stylobasium spathulatum*		X								X				X	
Violaceae	*Afrohybanthus aurantiacus*		X			X		X	X		X			X	X	
Zygophyllaceae	*Tribulopis angustifolia*															
	Tribulus ?hirsutus															
	Tribulus ?macrocarpus															
	Tribulus ?platypterus															
	Tribulus astrocarpus															
	Tribulus macrocarpus															
	Tribulus sp.															
	Tribulus suberosus				X		X				X					X
Indet.	Indet. sp.															

Family	Taxon	SGD061	SGD062	SGD063	SGD064	SGD065	SGD066	SGD070	SGD071	SGD072	SGD072B	SGD073	SGD074	SGD075	SGD076	SGD077
Acanthaceae	*Dipteracanthus australasicus* subsp. *australasicus*															
	Rostellularia adscendens var. *latifolia*															
Aizoaceae	*Trianthema pilosum*															
	Trianthema triquetrum															
	Zaleya galericulata subsp. *galericulata*															
Amaranthaceae	**Aerva javanica*										X					
	Amaranthus cuspidifolius															
	Amaranthus undulatus									X						
	Gomphrena affinis subsp. *pilbarensis*															
	Gomphrena canescens subsp. *canescens*															
	Gomphrena cunninghamii															
	Gomphrena sp.							X		X			X			
	Ptilotus ?clementii				X	X	X									
	Ptilotus ?fusifomis															
	Ptilotus ?rotundifolius															
	Ptilotus astrolasius				X		X									
	Ptilotus calostachyus	X	X		X	X	X									
	Ptilotus clementii															
	Ptilotus exaltatus	X			X	X		X				X	X	X	X	
	Ptilotus fusiformis							X								
	Ptilotus obovatus var. *obovatus*	X			X	X			X		X	X	X		X	
	Ptilotus polystachyus															
	Ptilotus rotundifolius															
	Ptilotus sp.			X	X	X	X	X				X		X		X
Apocynaceae	?*Leichhardtia australis*															
	Cynanchum floribundum															
	Cynanchum viminale subsp. *australe*															
	Vincetoxicum lineare															
Araliaceae	*Astrotricha hamptonii*															
	Trachymene oleracea subsp. *oleracea*															
	Trachymene sp.															
Asteraceae	*Pentalepis trichodesmoides* subsp. *trichodesmoides*								X							
	Peripleura virgata															
	Pluchea dunlopii															
	Pluchea tetranthera															
	Pterocaulon sp.															
	Pterocaulon sphacelatum								X				X		X	
	Streptoglossa decurrens														X	
Boraginaceae	*Ehretia saligna* var. *saligna*															
	Euploca ?chrysocarpa						X									
	Euploca cunninghamii															
	Euploca glabella															
	Euploca pachyphylla															
	Euploca sp.															
	Euploca tanythrix															
	Euploca tenuifolia															
	Trichodesma zeylanicum var. *zeylanicum*							X			X		X		X	
Brassicaceae	*Lepidium platypetalum*															
	Lepidium sp.															
Capparaceae	*Capparis lasiantha*															
	Capparis spinosa subsp. *nummularia*								X	X	X	X				
Caryophyllaceae	*Polycarpaea ?longiflora*									X						
	Polycarpaea longiflora															
	Polycarpaea sp.															
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)															

	Stackhousia sp.							X								
Chenopodiaceae	*Dysphania rhadinostachya* subsp. *rhadinostachya*															
	Enchylaena tomentosa var. *tomentosa*															
	Maireana ?tomentosa subsp. *tomentosa*															
	Maireana planifolia															
	Maireana sp.															
	Maireana tomentosa subsp. *tomentosa*															
	Rhagodia eremaea										X					
	Salsola australis								X	X		X			X	
	Sclerolaena cornishiana															
	Sclerolaena sp.															
Cleomaceae	*Arivela viscosa*								X	X			X		X	
Convolvulaceae	*Bonamia erecta*	X														
	Bonamia pilbarensis															
	Duperreya commixta									X	X		X			
	Evolvulus alsinoides var. *decumbens*															
	Evolvulus alsinoides var. *villosicalyx*												X			
	Polymeria ?ambigua															
	Polymeria mollis															
Cucurbitaceae	*Cucumis variabilis*								X	X	X		X			
Cyperaceae	*Cyperus cunninghamii* subsp. *cunninghamii*												X			
	Cyperus sp.															
	Fimbristylis simulans															
Euphorbiaceae	**Euphorbia hirta*															
	Euphorbia ?biconvexa															
	Euphorbia ?trigonosperma								X	X						
	Euphorbia australis var. *hispidula*															
	Euphorbia australis var. *subtomentosa*															
	Euphorbia biconvexa												X		X	
	Euphorbia careyi							X		X					X	
	Euphorbia tannensis subsp. *eremophila*								X	X	X	X	X			
	Euphorbia trigonosperma															
	Euphorbia vaccaria ?var. *vaccaria*															
Fabaceae	*Acacia ?adsurgens*															
	Acacia ?aneura															
	Acacia ?aptaneura															
	Acacia ?elachantha															
	Acacia ?paraneura															
	Acacia adoxa var. *adoxa*			X												
	Acacia adoxa var. *adoxa* x *Acacia spondylophylla*															
	Acacia adsurgens															
	Acacia ancistrocarpa						X									
	Acacia aptaneura															
	Acacia arida	X	X					X				X				
	Acacia atkinsiana															
	Acacia bivenosa				X	X	X	X			X					
	Acacia colei var. *colei*															
	Acacia dictyophleba	X														
	Acacia elachantha															
	Acacia hamersleyensis															
	Acacia hilliana			X									X	X		X
	Acacia inaequilatera				X		X								X	
	Acacia maitlandii	X	X										X			
	Acacia marramamba															
	Acacia monticola												X			
	Acacia pachyacra						X									

	Acacia pruinocarpa				X			X						X	X	
	Acacia pyrifolia ?var.			X												
	Acacia pyrifolia ?var. *pyrifolia*															
	Acacia pyrifolia var. *pyrifolia*							X	X	X	X					
	Acacia rhodophloia															
	Acacia sclerosperma subsp. *sclerosperma*															
	Acacia sericophylla															
	Acacia sp.															
	Acacia sp. (aneura complex)															
	Acacia spondylophylla	X	X					X				X		X		X
	Acacia synchronicia															
	Acacia tenuissima				X											
	Acacia trachycarpa															
	Acacia trudgeniana							X								
	Acacia tumida ?var.															
	Acacia tumida var. *pilbarensis*									X	X		X			
	Acacia wanyu															
	Acacia xiphophylla															
	Cajanus ?*cinereus*															
	Crotalaria medicaginea var. *neglecta*															
	Crotalaria novae-hollandiae subsp. *novae-hollandiae*															
	Cullen pustulatum														X	
	Glycine canescens															
	Gompholobium oreophilum															
	Indigofera ?*fractiflexa*															
	Indigofera colutea															
	Indigofera monophylla				X				X	X					X	
	Indigofera sp.															
	Isotropis atropurpurea															
	Mirbelia viminalis	X	X	X										X		
	Petalostylis labicheoides			X							X					
	Rhynchosia bungarensis												X			
	Rhynchosia minima										X					
	Senna ?*glaucifolia*															
	Senna artemisioides subsp. *helmsii*				X											
	Senna artemisioides subsp. *oligophylla*			X					X	X		X				
	Senna glaucifolia															
	Senna glutinosa subsp. ×*luerssenii*					X	X									
	Senna glutinosa subsp. *glutinosa*				X	X		X				X	X		X	X
	Senna glutinosa subsp. *glutinosa* ?*x*															
	Senna glutinosa subsp. *pruinosa*						X								X	
	Senna notabilis															
	Senna sp.															
	Senna stricta															
	Senna venusta												X		X	
	Swainsona formosa															
	Templetonia hookeri															
	Tephrosia ?*densa*															
	Tephrosia ?*rosea* var. Fortescue Creeks (M.I.H Brooker 2186)															
	Tephrosia arenicola															
	Tephrosia densa								X	X			X			
	Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)															
	Tephrosia sp.															
	Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)															
	Tephrosia virens															
Goodeniaceae	?*Goodenia stobbsiana*															

	Dampiera candicans		X					X								X
	Goodenia ?stobbsiana															
	Goodenia ?triodiophila															X
	Goodenia cusackiana				X											
	Goodenia microptera															
	Goodenia muelleriana						X									
	Goodenia sp.			X			X									
	Goodenia stobbsiana		X				X									X
	Goodenia triodiophila															
	Scaevola ?browniana													X		
	Scaevola browniana subsp. *browniana*													X		X
	Scaevola parvifolia subsp. *?pilbarae*															
	Scaevola parvifolia subsp. *pilbarae*															
	Scaevola spinescens															
Gyrostemonaceae	*Codonocarpus cotinifolius*															
Lamiaceae	*Clerodendrum ?tomentosum* var. *lanceolatum*															
	Clerodendrum floribundum var. *angustifolium*								X							
	Clerodendrum sp.															
	Dicrastylis cordifolia															
	Newcastelia clavipetala															
Lauraceae	*Cassytha capillaris*															
Loranthaceae	*Diplatia grandibractea*															
Malvaceae	**Malvastrum americanum*															
	?Abutilon sp.										X					
	Abutilon ?sp. Dioicum (A.A. Mitchell PRP 1618)										X					
	Abutilon fraseri subsp. *fraseri*															
	Abutilon lepidum															
	Abutilon macrum															
	Abutilon otocarpum															
	Abutilon sp.								X				X		X	
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)										X					
	Androcalva luteiflora									X						
	Brachychiton acuminatus												X			
	Corchorus ?lasiocarpus subsp. *lasiocarpus*															
	Corchorus ?tectus															
	Corchorus aff. *tectus*															
	Corchorus crozophorifolius															
	Corchorus incanus subsp. *lithophilus*									X			X			
	Corchorus lasiocarpus ?subsp. *parvus*															
	Corchorus lasiocarpus subsp. *lasiocarpus*															
	Corchorus sp.		X	X			X						X			
	Corchorus tridens															
	Corchorus lasiocarpus ?subsp. *lasiocarpus*															
	Gossypium australe							X								
	Gossypium robinsonii								X	X	X		X			
	Hibiscus ?brachychlaenus															
	Hibiscus burtonii															
	Hibiscus coatesii															
	Hibiscus leptocladus															
	Hibiscus sp.															
	Hibiscus sp. Gardneri (A.L. Payne PRP 1435)															
	Hibiscus sp. Mt Robinson (G. Byrne 3537)															
	Hibiscus sturtii var. *campylochlamys*															
	Hibiscus sturtii var. *platychlamys*															
	Malvaceae sp.															
	Melhania oblongifolia								X							

	Seringia exastia		X													X
	Sida ?*arenicola*															
	Sida ?*cardiophylla*															
	Sida ?*fibulifera*															
	Sida ?*platycalyx*															
	Sida ?sp. Articulation below (A.A. Mitchell PRP 1605)												X			
	Sida ?sp. L (A.M. Ashby 4202)															
	Sida cardiophylla		X													
	Sida echinocarpa															
	Sida fibulifera															
	Sida sp.									X						
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)															
	Sida sp. Barlee Range (S. van Leeuwen 1642)															
	Sida sp. Excedentifolia (J.L. Egan 1925)							X				X				
	Sida sp. L (A.M. Ashby 4202)															
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)															
	Sida ?sp. Pilbara (A.A. Mitchell PRP 1543)															
	Sida ?sp. spiciform panicles (E. Leyland s.n. 14/8/90)															
	Triumfetta ?*leptacantha*															
	Triumfetta leptacantha															
	Triumfetta maconochieana									X						
	Triumfetta sp.															
	Waltheria indica															
Menispermaceae	*Tinospora smilacina*															
Molluginaceae	*Trigastrotheca molluginea*						X									
Moraceae	*Ficus brachypoda*															
Myrtaceae	*Calytrix carinata*															
	Corymbia ?*deserticola* subsp. *deserticola*															
	Corymbia ?*hamersleyana*															
	Corymbia deserticola subsp. *deserticola*															
	Corymbia ferriticola															
	Corymbia hamersleyana		X				X	X	X		X	X				X
	Corymbia deserticola ?subsp. *deserticola*															
	Eucalyptus ?*victrix*										X					
	Eucalyptus gamophylla	X		X										X		X
	Eucalyptus kingsmillii	X		X												
	Eucalyptus leucophloia subsp. *leucophloia*	X	X	X	X	X	X	X				X		X	X	X
	Eucalyptus victrix									X			X			
	Eucalyptus ?*xerothermica*															
Nyctaginaceae	*Boerhavia coccinea*								X	X	X					
	Boerhavia sp.															
Oleaceae	*Jasminum didymum* subsp. *lineare*								X		X					
Phyllanthaceae	*Dendrophyllanthus erwinii*															
	Flueggea virosa subsp. *melanthesoides*												X			
	Nellica maderaspatensis										X					
	Notoleptopus decaisnei								X	X			X			
	Synostemon hamersleyensis															
Poaceae	**Cenchrus ciliaris*								X	X	X		X			
	**Cenchrus setiger*								X							
	**Setaria verticillata*								X							
	Amphipogon ?*sericeus*			X												
	Aristida ?*holathera* var. *holathera*			X				X					X		X	
	Aristida burbidgeae															
	Aristida contorta															
	Aristida holathera var. *holathera*		X													X
	Aristida inaequiglumis															

	Aristida sp.															
	Brachyachne sp.															
	Chrysopogon fallax															
	Cymbopogon ambiguus			X				X		X			X		X	
	Cynanchum floribundum												X			
	Enneapogon caerulescens										X		X			
	Enneapogon lindleyanus									X						
	Enneapogon polyphyllus												X			
	Eragrostis eriopoda															
	Eragrostis olida															
	Eriachne aristidea						X									
	Eriachne lanata		X											X		
	Eriachne mucronata			X	X	X	X	X		X		X	X			
	Eriachne pulchella subsp. *dominii*															
	Eriachne pulchella subsp. *pulchella*						X	X				X				
	Eulalia aurea												X			
	Neurachne muelleri							X								
	Panicum decompositum															
	Paspalidium clementii															
	Paspalidium tabulatum														X	
	Poaceae sp.	X														
	Themeda ?triandra					X										
	Themeda triandra												X			
	Triodia ?basedowii															
	Triodia ?epactia							X								
	Triodia ?epactia/pungens															
	Triodia ?vanleeuwenii															
	Triodia basedowii															
	Triodia brizoides														X	
	Triodia epactia				X	X										
	Triodia pungens									X			X			
	Triodia sp.															
	Triodia vanleeuwenii		X	X	X	X	X	X						X		X
	Triodia wiseana	X	X	X		X						X		X		
Portulacaceae	*Portulaca oleracea*															
Proteaceae	*Grevillea berryana*															
	Grevillea pyramidalis subsp. *leucadendron*															
	Grevillea wickhamii ?subsp.	X	X	X	X	X	X	X		X		X	X	X	X	X
	Grevillea wickhamii subsp. *hispidula*										X					
	Hakea chordophylla	X	X	X	X	X	X					X				X
	Hakea lorea subsp. *lorea*							X								
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*															
	Cheilanthes sp.															
Rubiaceae	*Dolichocarpa crouchiana*				X			X				X			X	
	Dolichocarpa sp.															
	Psydrax latifolia															
Santalaceae	*Anthobolus leptomerioides*															
	Santalum lanceolatum									X	X		X			
	Santalum spicatum															
Sapindaceae	*Atalaya hemiglauca*							X	X	X	X		X			
	Dodonaea coriacea															
	Dodonaea lanceolata var. *lanceolata*															
	Dodonaea pachyneura												X			
	Dodonaea petiolaris											X				
Scrophulariaceae	*Eremophila ?jucunda* subsp. *pulcherrima*															
	Eremophila cuneifolia															

	Eremophila forrestii subsp. *forrestii*															
	Eremophila latrobei subsp. *filiformis*															
	Eremophila longifolia								X						X	
	Eremophila magnifica subsp. *magnifica*															
Solanaceae	*Nicotiana benthamiana*															
	Solanum ?lasiophyllum															
	Solanum ?phlomoides				X	X	X		X							
	Solanum cleistogamum											X	X		X	
	Solanum perarmatum															
	Solanum phlomoides															
	Solanum sp.	X				X										
Surianaceae	*Stylobasium spathulatum*								X		X					
Violaceae	*Afrohybanthus aurantiacus*							X								
Zygophyllaceae	*Tribulopis angustifolia*															
	Tribulus ?hirsutus															
	Tribulus ?macrocarpus															
	Tribulus ?platypterus														X	
	Tribulus astrocarpus															
	Tribulus macrocarpus															
	Tribulus sp.															
	Tribulus suberosus				X	X	X	X				X				
Indet.	Indet. sp.												X			

Family	Taxon	SGD078	SGD079	SGD080	SGD081	SGD082	SGD083	SGD084	SGD085	SGD086	SGD087	SGD088	SGD089	SGD090	SGD091	SGD093
Acanthaceae	*Dipteracanthus australasicus* subsp. *australasicus*															
	Rostellularia adscendens var. *latifolia*															
Aizoaceae	*Trianthema pilosum*															X
	Trianthema triquetrum															
	Zaleya galericulata subsp. *galericulata*			X												
Amaranthaceae	**Aerva javanica*															
	Amaranthus cuspidifolius					X										
	Amaranthus undulatus															
	Gomphrena affinis subsp. *pilbarensis*															X
	Gomphrena canescens subsp. *canescens*					X										
	Gomphrena cunninghamii			X					X							X
	Gomphrena sp.							X		X						
	Ptilotus ?clementii															
	Ptilotus ?fusifomis															
	Ptilotus ?rotundifolius															
	Ptilotus astrolasius										X					X
	Ptilotus calostachyus	X		X	X	X	X	X		X	X		X		X	X
	Ptilotus clementii									X			X			
	Ptilotus exaltatus	X		X		X	X	X		X	X	X	X	X		X
	Ptilotus fusiformis	X			X		X			X						
	Ptilotus obovatus var. *obovatus*			X		X	X	X	X	X		X	X			X
	Ptilotus polystachyus															
	Ptilotus rotundifolius												X			
	Ptilotus sp.			X	X								X	X		
Apocynaceae	*?Leichhardtia australis*															
	Cynanchum floribundum			X												
	Cynanchum viminale subsp. *australe*															
	Vincetoxicum lineare															
Araliaceae	*Astrotricha hamptonii*															
	Trachymene oleracea subsp. *oleracea*															
	Trachymene sp.					X										
Asteraceae	*Pentalepis trichodesmoides* subsp. *trichodesmoides*															
	Peripleura virgata	X														
	Pluchea dunlopii			X												
	Pluchea tetranthera															
	Pterocaulon sp.								X							
	Pterocaulon sphacelatum			X		X										X
	Streptoglossa decurrens			X				X								X
Boraginaceae	*Ehretia saligna* var. *saligna*															
	Euploca ?chrysocarpa															
	Euploca cunninghamii															
	Euploca glabella															
	Euploca pachyphylla										X		X	X		
	Euploca sp.															
	Euploca tanythrix															
	Euploca tenuifolia															
	Trichodesma zeylanicum var. *zeylanicum*	X		X		X		X								X
Brassicaceae	*Lepidium platypetalum*															
	Lepidium sp.															
Capparaceae	*Capparis lasiantha*															
	Capparis spinosa subsp. *nummularia*															
Caryophyllaceae	*Polycarpaea ?longiflora*					X										
	Polycarpaea longiflora					X						X				

	Polycarpaea sp.			X				X								
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)															
	Stackhousia sp.															
Chenopodiaceae	*Dysphania rhadinostachya* subsp. *rhadinostachya*			X				X								
	Enchylaena tomentosa var. *tomentosa*															
	Maireana ?tomentosa subsp. *tomentosa*															
	Maireana planifolia															
	Maireana sp.															
	Maireana tomentosa subsp. *tomentosa*															
	Rhagodia eremaea											X				
	Salsola australis											X				X
	Sclerolaena cornishiana															
	Sclerolaena sp.															
Cleomaceae	*Arivela viscosa*			X		X		X		X		X				X
Convolvulaceae	*Bonamia erecta*									X						
	Bonamia pilbarensis															
	Duperreya commixta					X		X	X			X				
	Evolvulus alsinoides var. *decumbens*															
	Evolvulus alsinoides var. *villosicalyx*					X						X				X
	Polymeria ?ambigua															X
	Polymeria mollis															
Cucurbitaceae	*Cucumis variabilis*			X		X		X	X							X
Cyperaceae	*Cyperus cunninghamii* subsp. *cunninghamii*															
	Cyperus sp.															
	Fimbristylis simulans												X			
Euphorbiaceae	**Euphorbia hirta*															
	Euphorbia ?biconvexa							X	X							
	Euphorbia ?trigonosperma															
	Euphorbia australis var. *hispidula*															
	Euphorbia australis var. *subtomentosa*											X				
	Euphorbia biconvexa			X		X						X				X
	Euphorbia careyi	X						X		X			X			
	Euphorbia tannensis subsp. *eremophila*			X		X		X				X				X
	Euphorbia trigonosperma															
	Euphorbia vaccaria ?var. *vaccaria*															
Fabaceae	*Acacia ?adsurgens*															
	Acacia ?aneura															
	Acacia ?aptaneura															
	Acacia ?elachantha															
	Acacia ?paraneura															
	Acacia adoxa var. *adoxa*															
	Acacia adoxa var. *adoxa* x *Acacia spondylophylla*															
	Acacia adsurgens										X					
	Acacia ancistrocarpa															
	Acacia aptaneura															
	Acacia arida			X			X								X	
	Acacia atkinsiana															
	Acacia bivenosa									X			X			
	Acacia colei var. *colei*															
	Acacia dictyophleba														X	
	Acacia elachantha															
	Acacia hamersleyensis	X														
	Acacia hilliana	X	X				X									
	Acacia inaequilatera				X									X		X
	Acacia maitlandii	X			X										X	
	Acacia marramamba															

Acacia monticola	X		X				X								
Acacia pachyacra													X		
Acacia pruinocarpa			X	X		X	X				X				
Acacia pyrifolia ?var.															
Acacia pyrifolia ?var. *pyrifolia*															
Acacia pyrifolia var. *pyrifolia*	X		X		X		X	X	X		X	X			X
Acacia rhodophloia															
Acacia sclerosperma subsp. *sclerosperma*															
Acacia sericophylla													X		
Acacia sp.															
Acacia sp. (aneura complex)															
Acacia spondylophylla		X				X						X			
Acacia synchronicia									X						
Acacia tenuissima							X							X	
Acacia trachycarpa															
Acacia trudgeniana										X					
Acacia tumida ?var.															
Acacia tumida var. *pilbarensis*					X		X	X			X				
Acacia wanyu															
Acacia xiphophylla															
Cajanus ?*cinereus*															
Crotalaria medicaginea var. *neglecta*			X												X
Crotalaria novae-hollandiae subsp. *novae-hollandiae*															
Cullen pustulatum															
Glycine canescens															
Gompholobium oreophilum															
Indigofera ?*fractiflexa*								X							
Indigofera colutea															X
Indigofera monophylla	X		X		X		X				X		X		X
Indigofera sp.															
Isotropis atropurpurea								X							
Mirbelia viminalis															
Petalostylis labicheoides	X														
Rhynchosia bungarensis															
Rhynchosia minima					X		X								X
Senna ?*glaucifolia*															
Senna artemisioides subsp. *helmsii*															
Senna artemisioides subsp. *oligophylla*			X		X				X		X	X			X
Senna glaucifolia															
Senna glutinosa subsp. ×*luerssenii*												X			
Senna glutinosa subsp. *glutinosa*	X	X	X	X	X		X	X	X			X	X		
Senna glutinosa subsp. *glutinosa* ?*x*															
Senna glutinosa subsp. *pruinosa*				X					X	X		X			
Senna notabilis					X		X			X					X
Senna sp.															
Senna stricta															
Senna venusta								X							
Swainsona formosa															X
Templetonia hookeri															
Tephrosia ?*densa*							X	X							
Tephrosia ?*rosea* var. Fortescue Creeks (M.I.H Brooker 2186)															
Tephrosia arenicola															
Tephrosia densa			X		X						X				X
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)															
Tephrosia sp.															
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)															

	Tephrosia virens															
Goodeniaceae	?*Goodenia stobbsiana*															
	Dampiera candicans	X			X					X					X	
	Goodenia ?*stobbsiana*	X					X								X	
	Goodenia ?*triodiophila*															
	Goodenia cusackiana															
	Goodenia microptera												X			X
	Goodenia muelleriana															
	Goodenia sp.									X						
	Goodenia stobbsiana				X	X							X			
	Goodenia triodiophila						X								X	
	Scaevola ?*browniana*															
	Scaevola browniana subsp. *browniana*		X													
	Scaevola parvifolia subsp. ?*pilbarae*															
	Scaevola parvifolia subsp. *pilbarae*															
	Scaevola spinescens															
Gyrostemonaceae	*Codonocarpus cotinifolius*															
Lamiaceae	*Clerodendrum* ?*tomentosum* var. *lanceolatum*															
	Clerodendrum floribundum var. *angustifolium*					X			X							
	Clerodendrum sp.								X							
	Dicrastylis cordifolia													X		
	Newcastelia clavipetala															
Lauraceae	*Cassytha capillaris*															
Loranthaceae	*Diplatia grandibractea*															
Malvaceae	**Malvastrum americanum*															
	?*Abutilon* sp.							X								
	Abutilon ?sp. Dioicum (A.A. Mitchell PRP 1618)			X		X			X							
	Abutilon fraseri subsp. *fraseri*															
	Abutilon lepidum															X
	Abutilon macrum															
	Abutilon otocarpum															X
	Abutilon sp.							X								
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)			X		X										
	Androcalva luteiflora															
	Brachychiton acuminatus															
	Corchorus ?*lasiocarpus* subsp. *lasiocarpus*															
	Corchorus ?*tectus*															
	Corchorus aff. *tectus*															X
	Corchorus crozophorifolius							X								
	Corchorus incanus subsp. *lithophilus*			X					X			X				
	Corchorus lasiocarpus ?subsp. *parvus*															
	Corchorus lasiocarpus subsp. *lasiocarpus*						X		X							
	Corchorus sp.					X							X	X		
	Corchorus tridens															
	Corchorus lasiocarpus ?subsp. *lasiocarpus*															
	Gossypium australe															
	Gossypium robinsonii	X		X		X		X	X			X				X
	Hibiscus ?*brachychlaenus*															
	Hibiscus burtonii															
	Hibiscus coatesii									X						
	Hibiscus leptocladus															
	Hibiscus sp.															
	Hibiscus sp. Gardneri (A.L. Payne PRP 1435)															
	Hibiscus sp. Mt Robinson (G. Byrne 3537)								X							
	Hibiscus sturtii var. *campylochlamys*			X		X										X
	Hibiscus sturtii var. *platychlamys*															

	Malvaceae sp.															
	Melhania oblongifolia					X										X
	Seringia exastia		X													
	Sida ?*arenicola*															
	Sida ?*cardiophylla*															
	Sida ?*fibulifera*															
	Sida ?*platycalyx*															
	Sida ?sp. Articulation below (A.A. Mitchell PRP 1605)							X								
	Sida ?sp. L (A.M. Ashby 4202)					X										X
	Sida cardiophylla															
	Sida echinocarpa															
	Sida fibulifera															
	Sida sp.							X	X	X	X					
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)															
	Sida sp. Barlee Range (S. van Leeuwen 1642)															
	Sida sp. Excedentifolia (J.L. Egan 1925)															
	Sida sp. L (A.M. Ashby 4202)															
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)												X			
	Sida ?sp. Pilbara (A.A. Mitchell PRP 1543)															
	Sida ?sp. spiciform panicles (E. Leyland s.n. 14/8/90)					X					X					X
	Triumfetta ?*leptacantha*															
	Triumfetta leptacantha															
	Triumfetta maconochieana	X				X			X					X		
	Triumfetta sp.															
	Waltheria indica											X				X
Menispermaceae	*Tinospora smilacina*															
Molluginaceae	*Trigastrotheca molluginea*						X	X		X		X	X	X		X
Moraceae	*Ficus brachypoda*								X							
Myrtaceae	*Calytrix carinata*						X									
	Corymbia ?*deserticola* subsp. *deserticola*															
	Corymbia ?*hamersleyana*															
	Corymbia deserticola subsp. *deserticola*															
	Corymbia ferriticola								X							
	Corymbia hamersleyana		X		X			X				X				
	Corymbia deserticola ?subsp. *deserticola*				X											
	Eucalyptus ?*victrix*															
	Eucalyptus gamophylla	X	X				X				X				X	
	Eucalyptus kingsmillii															
	Eucalyptus leucophloia subsp. *leucophloia*	X	X		X		X	X	X				X		X	
	Eucalyptus victrix															
	Eucalyptus ?*xerothermica*															
Nyctaginaceae	*Boerhavia coccinea*			X		X						X				X
	Boerhavia sp.															
Oleaceae	*Jasminum didymum* subsp. *lineare*	X		X		X		X			X			X		
Phyllanthaceae	*Dendrophyllanthus erwinii*															
	Flueggea virosa subsp. *melanthesoides*															
	Nellica maderaspatensis															X
	Notoleptopus decaisnei			X		X		X				X				X
	Synostemon hamersleyensis															
Poaceae	**Cenchrus ciliaris*			X		X			X		X	X				X
	**Cenchrus setiger*					X						X				
	**Setaria verticillata*					X										
	Amphipogon ?*sericeus*															
	Aristida ?*holathera* var. *holathera*													X		
	Aristida burbidgeae															
	Aristida contorta									X		X			X	

	Aristida holathera var. *holathera*			X	X	X							X			X
	Aristida inaequiglumis															
	Aristida sp.															
	Brachyachne sp.															
	Chrysopogon fallax															
	Cymbopogon ambiguus					X		X	X							
	Cynanchum floribundum															
	Enneapogon caerulescens							X					X			
	Enneapogon lindleyanus			X		X						X				
	Enneapogon polyphyllus			X		X		X								
	Eragrostis eriopoda			X		X										
	Eragrostis olida															
	Eriachne aristidea			X						X						
	Eriachne lanata						X									
	Eriachne mucronata			X				X	X			X				
	Eriachne pulchella subsp. *dominii*									X						
	Eriachne pulchella subsp. *pulchella*	X						X					X			
	Eulalia aurea					X										
	Neurachne muelleri								X							
	Panicum decompositum															
	Paspalidium clementii			X		X					X					
	Paspalidium tabulatum							X	X							
	Poaceae sp.															
	Themeda ?triandra															
	Themeda triandra							X	X							
	Triodia ?basedowii															
	Triodia ?epactia															
	Triodia ?epactia/pungens			X			X	X	X							
	Triodia ?vanleeuwenii			X											X	
	Triodia basedowii															
	Triodia brizoides									X						
	Triodia epactia					X										
	Triodia pungens											X		X		X
	Triodia sp.															
	Triodia vanleeuwenii	X	X		X		X	X			X		X			
	Triodia wiseana	X				X					X		X			
Portulacaceae	*Portulaca oleracea*									X						
Proteaceae	*Grevillea berryana*															
	Grevillea pyramidalis subsp. *leucadendron*															
	Grevillea wickhamii ?subsp.			X	X	X	X				X	X	X	X		X
	Grevillea wickhamii subsp. *hispidula*		X					X	X						X	
	Hakea chordophylla	X	X		X		X								X	
	Hakea lorea subsp. *lorea*												X			
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*															
	Cheilanthes sp.															
Rubiaceae	*Dolichocarpa crouchiana*	X		X				X		X			X		X	
	Dolichocarpa sp.															
	Psydrax latifolia															
Santalaceae	*Anthobolus leptomerioides*															
	Santalum lanceolatum			X		X			X							X
	Santalum spicatum								X							
Sapindaceae	*Atalaya hemiglauca*			X		X		X	X			X				X
	Dodonaea coriacea															
	Dodonaea lanceolata var. *lanceolata*															
	Dodonaea pachyneura								X							
	Dodonaea petiolaris											X				

Scrophulariaceae	*Eremophila ?jucunda* subsp. *pulcherrima*															
	Eremophila cuneifolia															
	Eremophila forrestii subsp. *forrestii*															
	Eremophila latrobei subsp. *filiformis*															
	Eremophila longifolia			X		X										
	Eremophila magnifica subsp. *magnifica*															
Solanaceae	*Nicotiana benthamiana*															
	Solanum ?lasiophyllum															
	Solanum ?phlomoides							X						X	X	
	Solanum cleistogamum			X		X										
	Solanum perarmatum															
	Solanum phlomoides			X		X			X							
	Solanum sp.				X			X	X	X						X
Surianaceae	*Stylobasium spathulatum*			X		X		X	X							
Violaceae	*Afrohybanthus aurantiacus*					X			X			X		X		X
Zygophyllaceae	*Tribulopis angustifolia*															
	Tribulus ?hirsutus															
	Tribulus ?macrocarpus													X		
	Tribulus ?platypterus															
	Tribulus astrocarpus															
	Tribulus macrocarpus															X
	Tribulus sp.					X							X			
	Tribulus suberosus					X				X		X	X			
Indet.	Indet. sp.															

Family	Taxon	SGD094	SGD095	SGD096	SGD097	SGD098	SGD099	SGD100	SGD101	SGD102	SGD103	SGD104	SGD105	SGD106	SGD107	SGD108
Acanthaceae	*Dipteracanthus australasicus* subsp. *australasicus*															
	Rostellularia adscendens var. *latifolia*															
Aizoaceae	*Trianthema pilosum*										X		X			X
	Trianthema triquetrum															
	Zaleya galericulata subsp. *galericulata*															
Amaranthaceae	**Aerva javanica*															
	Amaranthus cuspidifolius															
	Amaranthus undulatus															
	Gomphrena affinis subsp. *pilbarensis*		X								X		X			
	Gomphrena canescens subsp. *canescens*															
	Gomphrena cunninghamii								X	X						
	Gomphrena sp.	X			X						X					
	Ptilotus ?*clementii*															
	Ptilotus ?*fusifomis*															
	Ptilotus ?*rotundifolius*															
	Ptilotus astrolasius					X					X		X			X
	Ptilotus calostachyus		X			X			X	X	X		X			X
	Ptilotus clementii	X	X			X					X					
	Ptilotus exaltatus	X	X		X	X	X	X	X	X	X		X	X	X	X
	Ptilotus fusiformis		X			X		X								
	Ptilotus obovatus var. *obovatus*	X	X		X		X		X	X				X	X	X
	Ptilotus polystachyus						X				X	X				X
	Ptilotus rotundifolius															
	Ptilotus sp.	X		X	X		X	X						X	X	
Apocynaceae	?*Leichhardtia australis*															
	Cynanchum floribundum				X											
	Cynanchum viminale subsp. *australe*														X	
	Vincetoxicum lineare															
Araliaceae	*Astrotricha hamptonii*															
	Trachymene oleracea subsp. *oleracea*															
	Trachymene sp.															
Asteraceae	*Pentalepis trichodesmoides* subsp. *trichodesmoides*															
	Peripleura virgata															
	Pluchea dunlopii															
	Pluchea tetranthera				X											
	Pterocaulon sp.															
	Pterocaulon sphacelatum	X	X		X				X	X						
	Streptoglossa decurrens	X	X		X										X	
Boraginaceae	*Ehretia saligna* var. *saligna*									X						
	Euploca ?*chrysocarpa*															
	Euploca cunninghamii								X							
	Euploca glabella		X													
	Euploca pachyphylla					X					X		X	X		
	Euploca sp.															
	Euploca tanythrix															
	Euploca tenuifolia															
	Trichodesma zeylanicum var. *zeylanicum*	X	X		X		X		X	X	X		X		X	
Brassicaceae	*Lepidium platypetalum*															
	Lepidium sp.															
Capparaceae	*Capparis lasiantha*															
	Capparis spinosa subsp. *nummularia*															
Caryophyllaceae	*Polycarpaea* ?*longiflora*				X											
	Polycarpaea longiflora		X							X						

	Polycarpaea sp.															
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)															
	Stackhousia sp.						X									
Chenopodiaceae	*Dysphania rhadinostachya* subsp. *rhadinostachya*															
	Enchylaena tomentosa var. *tomentosa*															
	Maireana ?tomentosa subsp. *tomentosa*															
	Maireana planifolia															
	Maireana sp.															
	Maireana tomentosa subsp. *tomentosa*															X
	Rhagodia eremaea	X														X
	Salsola australis		X						X							
	Sclerolaena cornishiana															
	Sclerolaena sp.															
Cleomaceae	*Arivela viscosa*	X	X		X				X	X					X	X
Convolvulaceae	*Bonamia erecta*					X					X		X	X		X
	Bonamia pilbarensis															
	Duperreya commixta	X	X			X				X	X					
	Evolvulus alsinoides var. *decumbens*															
	Evolvulus alsinoides var. *villosicalyx*	X	X			X			X	X	X					
	Polymeria ?ambigua										X					
	Polymeria mollis															
Cucurbitaceae	*Cucumis variabilis*	X	X		X	X				X						
Cyperaceae	*Cyperus cunninghamii* subsp. *cunninghamii*															
	Cyperus sp.				X											
	Fimbristylis simulans							X								
Euphorbiaceae	**Euphorbia hirta*															
	Euphorbia ?biconvexa								X	X						
	Euphorbia ?trigonosperma	X														
	Euphorbia australis var. *hispidula*					X							X		X	
	Euphorbia australis var. *subtomentosa*															
	Euphorbia biconvexa				X											
	Euphorbia careyi		X		X											
	Euphorbia tannensis subsp. *eremophila*		X						X	X						
	Euphorbia trigonosperma															
	Euphorbia vaccaria ?var. *vaccaria*															
Fabaceae	*Acacia ?adsurgens*												X			
	Acacia ?aneura															
	Acacia ?aptaneura															
	Acacia ?elachantha															
	Acacia ?paraneura															
	Acacia adoxa var. *adoxa*											X				
	Acacia adoxa var. *adoxa* x *Acacia spondylophylla*				X							X				
	Acacia adsurgens															X
	Acacia ancistrocarpa					X					X				X	
	Acacia aptaneura															
	Acacia arida		X				X					X				
	Acacia atkinsiana										X					X
	Acacia bivenosa			X		X		X								
	Acacia colei var. *colei*												X			
	Acacia dictyophleba					X	X								X	
	Acacia elachantha															
	Acacia hamersleyensis															
	Acacia hilliana			X												
	Acacia inaequilatera	X											X			X
	Acacia maitlandii											X				
	Acacia marramamba															

Acacia monticola		X							X						
Acacia pachyacra	X				X		X			X		X	X		
Acacia pruinocarpa											X			X	
Acacia pyrifolia ?var.															
Acacia pyrifolia ?var. *pyrifolia*															
Acacia pyrifolia var. *pyrifolia*		X						X		X					
Acacia rhodophloia															
Acacia sclerosperma subsp. *sclerosperma*			X												
Acacia sericophylla						X							X	X	
Acacia sp.														X	
Acacia sp. (aneura complex)														X	
Acacia spondylophylla		X	X						X	X					
Acacia synchronicia					X										
Acacia tenuissima															X
Acacia trachycarpa															
Acacia trudgeniana															
Acacia tumida ?var.															
Acacia tumida var. *pilbarensis*	X	X		X				X	X	X					
Acacia wanyu															
Acacia xiphophylla															
Cajanus ?*cinereus*															
Crotalaria medicaginea var. *neglecta*															
Crotalaria novae-hollandiae subsp. *novae-hollandiae*															
Cullen pustulatum															
Glycine canescens									X						
Gompholobium oreophilum															
Indigofera ?*fractiflexa*															
Indigofera colutea															
Indigofera monophylla	X	X		X	X			X	X	X		X			X
Indigofera sp.															
Isotropis atropurpurea															
Mirbelia viminalis			X						X						
Petalostylis labicheoides				X											
Rhynchosia bungarensis															
Rhynchosia minima		X			X	X		X		X					X
Senna ?*glaucifolia*															
Senna artemisioides subsp. *helmsii*										X					
Senna artemisioides subsp. *oligophylla*		X			X	X		X	X	X		X		X	X
Senna glaucifolia															
Senna glutinosa subsp. ×*luerssenii*														X	
Senna glutinosa subsp. *glutinosa*	X	X							X				X		
Senna glutinosa subsp. *glutinosa* ?*x*															
Senna glutinosa subsp. *pruinosa*			X												
Senna notabilis		X		X	X	X				X		X			X
Senna sp.															
Senna stricta															
Senna venusta	X			X							X		X	X	
Swainsona formosa															
Templetonia hookeri															
Tephrosia ?*densa*								X	X						
Tephrosia ?*rosea* var. Fortescue Creeks (M.I.H Brooker 2186)															X
Tephrosia arenicola		X													
Tephrosia densa	X	X													
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)															
Tephrosia sp.															
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)												X			

	Tephrosia virens															
Goodeniaceae	?*Goodenia stobbsiana*	X		X								X				
	Dampiera candicans	X	X	X	X			X				X				
	Goodenia ?*stobbsiana*															
	Goodenia ?*triodiophila*															
	Goodenia cusackiana															
	Goodenia microptera					X	X				X		X	X	X	X
	Goodenia muelleriana															
	Goodenia sp.															
	Goodenia stobbsiana		X			X										X
	Goodenia triodiophila															
	Scaevola ?*browniana*															
	Scaevola browniana subsp. *browniana*															
	Scaevola parvifolia subsp. ?*pilbarae*															
	Scaevola parvifolia subsp. *pilbarae*					X										
	Scaevola spinescens															
Gyrostemonaceae	*Codonocarpus cotinifolius*	X					X									
Lamiaceae	*Clerodendrum* ?*tomentosum* var. *lanceolatum*		X													
	Clerodendrum floribundum var. *angustifolium*									X						
	Clerodendrum sp.															
	Dicrastylis cordifolia					X							X	X	X	X
	Newcastelia clavipetala															
Lauraceae	*Cassytha capillaris*															
Loranthaceae	*Diplatia grandibractea*															
Malvaceae	**Malvastrum americanum*															
	?*Abutilon* sp.										X					
	Abutilon ?sp. Dioicum (A.A. Mitchell PRP 1618)															
	Abutilon fraseri subsp. *fraseri*															
	Abutilon lepidum															
	Abutilon macrum															
	Abutilon otocarpum															
	Abutilon sp.	X	X		X	X										
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)		X													
	Androcalva luteiflora															
	Brachychiton acuminatus															
	Corchorus ?*lasiocarpus* subsp. *lasiocarpus*															
	Corchorus ?*tectus*		X													
	Corchorus aff. *tectus*					X					X		X	X	X	X
	Corchorus crozophorifolius											X				
	Corchorus incanus subsp. *lithophilus*	X							X							
	Corchorus lasiocarpus ?subsp. *parvus*															
	Corchorus lasiocarpus subsp. *lasiocarpus*															X
	Corchorus sp.				X											
	Corchorus tridens						X									
	Corchorus lasiocarpus ?subsp. *lasiocarpus*															
	Gossypium australe				X									X	X	
	Gossypium robinsonii	X	X		X	X	X		X	X	X					
	Hibiscus ?*brachychlaenus*															
	Hibiscus burtonii									X			X			
	Hibiscus coatesii															
	Hibiscus leptocladus				X											
	Hibiscus sp.					X										
	Hibiscus sp. Gardneri (A.L. Payne PRP 1435)															
	Hibiscus sp. Mt Robinson (G. Byrne 3537)															
	Hibiscus sturtii var. *campylochlamys*															
	Hibiscus sturtii var. *platychlamys*															

	Malvaceae sp.															
	Melhania oblongifolia															
	Seringia exastia															
	Sida ?*arenicola*															
	Sida ?*cardiophylla*															
	Sida ?*fibulifera*															
	Sida ?*platycalyx*					X										
	Sida ?sp. Articulation below (A.A. Mitchell PRP 1605)				X				X	X						
	Sida ?sp. L (A.M. Ashby 4202)															
	Sida cardiophylla															
	Sida echinocarpa															
	Sida fibulifera						X		X					X	X	X
	Sida sp.					X					X		X			
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)															
	Sida sp. Barlee Range (S. van Leeuwen 1642)															
	Sida sp. Excedentifolia (J.L. Egan 1925)															
	Sida sp. L (A.M. Ashby 4202)									X						
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)															
	Sida ?sp. Pilbara (A.A. Mitchell PRP 1543)															
	Sida ?sp. spiciform panicles (E. Leyland s.n. 14/8/90)		X													
	Triumfetta ?*leptacantha*															
	Triumfetta leptacantha															
	Triumfetta maconochieana		X											X	X	
	Triumfetta sp.															
	Waltheria indica								X							
Menispermaceae	*Tinospora smilacina*															
Molluginaceae	*Trigastrotheca molluginea*	X				X			X	X			X	X	X	
Moraceae	*Ficus brachypoda*									X						
Myrtaceae	*Calytrix carinata*															
	Corymbia ?*deserticola* subsp. *deserticola*															
	Corymbia ?*hamersleyana*														X	
	Corymbia deserticola subsp. *deserticola*															
	Corymbia ferriticola															
	Corymbia hamersleyana	X	X		X		X			X	X					X
	Corymbia deserticola ?subsp. *deserticola*															
	Eucalyptus ?*victrix*															
	Eucalyptus gamophylla			X		X				X	X	X	X			X
	Eucalyptus kingsmillii															
	Eucalyptus leucophloia subsp. *leucophloia*	X	X	X	X			X				X				
	Eucalyptus victrix															
	Eucalyptus ?*xerothermica*															
Nyctaginaceae	*Boerhavia coccinea*	X					X		X	X	X					X
	Boerhavia sp.															
Oleaceae	*Jasminum didymum* subsp. *lineare*		X				X		X	X						X
Phyllanthaceae	*Dendrophyllanthus erwinii*															
	Flueggea virosa subsp. *melanthesoides*															
	Nellica maderaspatensis					X			X							
	Notoleptopus decaisnei	X	X						X							
	Synostemon hamersleyensis															
Poaceae	**Cenchrus ciliaris*	X	X			X	X		X	X	X				X	X
	**Cenchrus setiger*								X							
	**Setaria verticillata*															
	Amphipogon ?*sericeus*				X	X						X				
	Aristida ?*holathera* var. *holathera*	X			X		X	X			X			X	X	X
	Aristida burbidgeae															
	Aristida contorta								X	X	X					X

	Aristida holathera var. *holathera*		X			X							X			
	Aristida inaequiglumis		X			X				X						
	Aristida sp.															
	Brachyachne sp.															
	Chrysopogon fallax															
	Cymbopogon ambiguus	X	X		X				X							
	Cynanchum floribundum															
	Enneapogon caerulescens	X			X				X	X						
	Enneapogon lindleyanus		X													
	Enneapogon polyphyllus		X													
	Eragrostis eriopoda					X							X			X
	Eragrostis olida															
	Eriachne aristidea					X							X			X
	Eriachne lanata															
	Eriachne mucronata	X	X		X			X	X	X						
	Eriachne pulchella subsp. *dominii*								X							
	Eriachne pulchella subsp. *pulchella*	X														
	Eulalia aurea															
	Neurachne muelleri	X	X							X	X			X	X	
	Panicum decompositum															
	Paspalidium clementii	X	X													
	Paspalidium tabulatum									X						
	Poaceae sp.															
	Themeda ?triandra															
	Themeda triandra		X							X						
	Triodia ?basedowii															
	Triodia ?epactia															
	Triodia ?epactia/pungens									X						
	Triodia ?vanleeuwenii															
	Triodia basedowii					X	X				X		X	X	X	X
	Triodia brizoides															
	Triodia epactia															
	Triodia pungens	X	X		X				X		X					
	Triodia sp.															
	Triodia vanleeuwenii			X				X		X		X				
	Triodia wiseana							X								
Portulacaceae	*Portulaca oleracea*													X	X	
Proteaceae	*Grevillea berryana*															
	Grevillea pyramidalis subsp. *leucadendron*															
	Grevillea wickhamii ?subsp.	X	X	X	X	X	X	X	X		X	X	X	X	X	
	Grevillea wickhamii subsp. *hispidula*									X						
	Hakea chordophylla			X								X	X			
	Hakea lorea subsp. *lorea*										X		X			X
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*															
	Cheilanthes sp.															
Rubiaceae	*Dolichocarpa crouchiana*	X	X	X	X	X		X		X						
	Dolichocarpa sp.															
	Psydrax latifolia															
Santalaceae	*Anthobolus leptomerioides*															
	Santalum lanceolatum	X								X						
	Santalum spicatum															
Sapindaceae	*Atalaya hemiglauca*	X	X		X				X							X
	Dodonaea coriacea															
	Dodonaea lanceolata var. *lanceolata*															
	Dodonaea pachyneura															
	Dodonaea petiolaris						X									

Scrophulariaceae	*Eremophila ?jucunda* subsp. *pulcherrima*															
	Eremophila cuneifolia															
	Eremophila forrestii subsp. *forrestii*															
	Eremophila latrobei subsp. *filiformis*															
	Eremophila longifolia		X													
	Eremophila magnifica subsp. *magnifica*															
Solanaceae	*Nicotiana benthamiana*															
	Solanum ?lasiophyllum															
	Solanum ?phlomoides	X						X	X		X		X		X	
	Solanum cleistogamum				X											
	Solanum perarmatum		X		X											
	Solanum phlomoides		X							X						
	Solanum sp.					X				X						
Surianaceae	*Stylobasium spathulatum*	X	X		X											
Violaceae	*Afrohybanthus aurantiacus*	X	X			X	X		X	X	X		X	X	X	X
Zygophyllaceae	*Tribulopis angustifolia*													X		
	Tribulus ?hirsutus	X									X					
	Tribulus ?macrocarpus													X	X	
	Tribulus ?platypterus															
	Tribulus astrocarpus															
	Tribulus macrocarpus					X			X		X		X			X
	Tribulus sp.															
	Tribulus suberosus	X			X			X	X							
Indet.	Indet. sp.															

Family	Taxon	SGD110	SGD111	SGD112	SGD113	SGD114	SGD115	SGD116	SGD117	SGD118	SGD119	SGD120	SGD121	SGD122	SGD123	SGD124	SGD125	SGD126
Acanthaceae	*Dipteracanthus australasicus* subsp. *australasicus*																	
	Rostellularia adscendens var. *latifolia*																	
Aizoaceae	*Trianthema pilosum*																	
	Trianthema triquetrum																	
	Zaleya galericulata subsp. *galericulata*																	
Amaranthaceae	**Aerva javanica*																	
	Amaranthus cuspidifolius																	
	Amaranthus undulatus																	
	Gomphrena affinis subsp. *pilbarensis*																	
	Gomphrena canescens subsp. *canescens*																	
	Gomphrena cunninghamii																X	
	Gomphrena sp.																	
	Ptilotus ?clementii																	
	Ptilotus ?fusifomis																	
	Ptilotus ?rotundifolius																	
	Ptilotus astrolasius															X		
	Ptilotus calostachyus				X	X			X	X				X	X	X		
	Ptilotus clementii																	
	Ptilotus exaltatus	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Ptilotus fusiformis																	
	Ptilotus obovatus var. *obovatus*		X	X		X	X			X	X	X	X				X	X
	Ptilotus polystachyus																	
	Ptilotus rotundifolius																	
	Ptilotus sp.																	
Apocynaceae	?*Leichhardtia australis*								X				X					
	Cynanchum floribundum																	
	Cynanchum viminale subsp. *australe*																	
	Vincetoxicum lineare					X												
Araliaceae	*Astrotricha hamptonii*																	
	Trachymene oleracea subsp. *oleracea*														X			
	Trachymene sp.																	
Asteraceae	*Pentalepis trichodesmoides* subsp. *trichodesmoides*																	
	Peripleura virgata																	
	Pluchea dunlopii																	
	Pluchea tetranthera																	
	Pterocaulon sp.	X																
	Pterocaulon sphacelatum										X							
	Streptoglossa decurrens																	
Boraginaceae	*Ehretia saligna* var. *saligna*																	
	Euploca ?chrysocarpa																	
	Euploca cunninghamii	X																
	Euploca glabella																	
	Euploca pachyphylla				X				X	X				X	X	X		
	Euploca sp.									X						X		
	Euploca tanythrix																	
	Euploca tenuifolia				X													
	Trichodesma zeylanicum var. *zeylanicum*	X		X	X						X							
Brassicaceae	*Lepidium platypetalum*																	X
	Lepidium sp.																	
Capparaceae	*Capparis lasiantha*																	
	Capparis spinosa subsp. *nummularia*																	
Caryophyllaceae	*Polycarpaea ?longiflora*	X																
	Polycarpaea longiflora																	

	Polycarpaea sp.																	
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)							X										
	Stackhousia sp.																	
Chenopodiaceae	*Dysphania rhadinostachya* subsp. *rhadinostachya*																	
	Enchylaena tomentosa var. *tomentosa*												X					
	Maireana ?tomentosa subsp. *tomentosa*		X									X						
	Maireana planifolia																	X
	Maireana sp.		X															
	Maireana tomentosa subsp. *tomentosa*											X	X					
	Rhagodia eremaea		X									X						X
	Salsola australis		X		X		X				X	X	X					
	Sclerolaena cornishiana						X						X					
	Sclerolaena sp.																	
Cleomaceae	*Arivela viscosa*	X		X	X					X	X		X			X	X	
Convolvulaceae	*Bonamia erecta*			X		X		X	X	X				X				
	Bonamia pilbarensis																	
	Duperreya commixta	X	X	X	X		X				X	X	X				X	X
	Evolvulus alsinoides var. *decumbens*																	
	Evolvulus alsinoides var. *villosicalyx*	X	X	X	X		X		X	X	X	X	X				X	
	Polymeria ?ambigua																	
	Polymeria mollis																	
Cucurbitaceae	*Cucumis variabilis*	X									X	X						
Cyperaceae	*Cyperus cunninghamii* subsp. *cunninghamii*																	
	Cyperus sp.																	
	Fimbristylis simulans																	
Euphorbiaceae	**Euphorbia hirta*																	
	Euphorbia ?biconvexa																	
	Euphorbia ?trigonosperma																	
	Euphorbia australis var. *hispidula*																	
	Euphorbia australis var. *subtomentosa*																	
	Euphorbia biconvexa																	
	Euphorbia careyi																	
	Euphorbia tannensis subsp. *eremophila*		X		X											X	X	
	Euphorbia trigonosperma																	
	Euphorbia vaccaria ?var. *vaccaria*																	
Fabaceae	*Acacia ?adsurgens*																	
	Acacia ?aneura											X						
	Acacia ?aptaneura		X				X					X						
	Acacia ?elachantha																	
	Acacia ?paraneura																	
	Acacia adoxa var. *adoxa*																	
	Acacia adoxa var. *adoxa* x *Acacia spondylophylla*																	
	Acacia adsurgens								X					X				
	Acacia ancistrocarpa	X		X	X		X	X	X	X			X	X				
	Acacia aptaneura										X		X					
	Acacia arida																	
	Acacia atkinsiana																	
	Acacia bivenosa	X	X	X		X												
	Acacia colei var. *colei*																	
	Acacia dictyophleba																	
	Acacia elachantha															X		
	Acacia hamersleyensis																	
	Acacia hilliana																	
	Acacia inaequilatera					X		X	X	X					X	X		
	Acacia maitlandii																	
	Acacia marramamba																	

Acacia monticola																	
Acacia pachyacra																	
Acacia pruinocarpa		X	X			X			X	X	X	X					
Acacia pyrifolia ?var.																	
Acacia pyrifolia ?var. *pyrifolia*																	
Acacia pyrifolia var. *pyrifolia*	X	X	X	X								X		X		X	
Acacia rhodophloia																	
Acacia sclerosperma subsp. *sclerosperma*																	
Acacia sericophylla							X										
Acacia sp.																	
Acacia sp. (aneura complex)										X							
Acacia spondylophylla																	
Acacia synchronicia													X				
Acacia tenuissima				X	X								X	X			
Acacia trachycarpa									X								
Acacia trudgeniana																	
Acacia tumida ?var.							X										
Acacia tumida var. *pilbarensis*	X		X		X											X	
Acacia wanyu																	
Acacia xiphophylla																	X
Cajanus ?*cinereus*																	
Crotalaria medicaginea var. *neglecta*																	
Crotalaria novae-hollandiae subsp. *novae-hollandiae*																	
Cullen pustulatum																	
Glycine canescens						X				X		X					
Gompholobium oreophilum	X																
Indigofera ?*fractiflexa*																	
Indigofera colutea															X		
Indigofera monophylla	X			X	X	X	X		X				X		X	X	
Indigofera sp.									X								
Isotropis atropurpurea																	
Mirbelia viminalis																	
Petalostylis labicheoides																	
Rhynchosia bungarensis																	
Rhynchosia minima				X	X	X											
Senna ?*glaucifolia*																	
Senna artemisioides subsp. *helmsii*		X		X		X				X	X	X			X		
Senna artemisioides subsp. *oligophylla*	X	X	X	X	X	X		X	X						X	X	
Senna glaucifolia																	
Senna glutinosa subsp. ×*luerssenii*				X		X				X	X	X					
Senna glutinosa subsp. *glutinosa*			X		X		X	X	X	X	X		X	X			X
Senna glutinosa subsp. *glutinosa* ?*x*			X														
Senna glutinosa subsp. *pruinosa*																	
Senna notabilis								X	X								
Senna sp.														X			
Senna stricta																	
Senna venusta																	
Swainsona formosa																	
Templetonia hookeri																	
Tephrosia ?*densa*															X		
Tephrosia ?*rosea* var. Fortescue Creeks (M.I.H Brooker 2186)				X													
Tephrosia arenicola																	
Tephrosia densa	X		X													X	
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)																X	
Tephrosia sp.																	

	Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)																	
	Tephrosia virens																	
Goodeniaceae	?*Goodenia stobbsiana*																	
	Dampiera candicans																	
	Goodenia ?*stobbsiana*																	
	Goodenia ?*triodiophila*																	
	Goodenia cusackiana																	
	Goodenia microptera				X	X			X					X				
	Goodenia muelleriana																	
	Goodenia sp.		X															
	Goodenia stobbsiana					X												
	Goodenia triodiophila																	
	Scaevola ?*browniana*																	
	Scaevola browniana subsp. *browniana*																	
	Scaevola parvifolia subsp. ?*pilbarae*								X				X		X			
	Scaevola parvifolia subsp. *pilbarae*					X								X				
	Scaevola spinescens																	
Gyrostemonaceae	*Codonocarpus cotinifolius*														X			
Lamiaceae	*Clerodendrum* ?*tomentosum* var. *lanceolatum*																	
	Clerodendrum floribundum var. *angustifolium*																	
	Clerodendrum sp.																	
	Dicrastylis cordifolia					X				X				X				
	Newcastelia clavipetala																	
Lauraceae	*Cassytha capillaris*																	
Loranthaceae	*Diplatia grandibractea*																	
Malvaceae	**Malvastrum americanum*																	
	?*Abutilon* sp.																	
	Abutilon ?sp. Dioicum (A.A. Mitchell PRP 1618)																	
	Abutilon fraseri subsp. *fraseri*		X															
	Abutilon lepidum												X					
	Abutilon macrum																	
	Abutilon otocarpum																	
	Abutilon sp.						X				X	X	X					
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)																X	
	Androcalva luteiflora																	
	Brachychiton acuminatus																	
	Corchorus ?*lasiocarpus* subsp. *lasiocarpus*																	
	Corchorus ?*tectus*																	
	Corchorus aff. *tectus*	X																
	Corchorus crozophorifolius																	
	Corchorus incanus subsp. *lithophilus*																	
	Corchorus lasiocarpus ?subsp. *parvus*																	
	Corchorus lasiocarpus subsp. *lasiocarpus*				X					X				X	X	X		
	Corchorus sp.	X	X	X		X											X	
	Corchorus tridens																	
	Corchorus lasiocarpus ?subsp. *lasiocarpus*																	
	Gossypium australe			X							X					X		
	Gossypium robinsonii	X		X													X	
	Hibiscus ?*brachychlaenus*						X		X	X	X							
	Hibiscus burtonii						X			X	X	X						
	Hibiscus coatesii																	
	Hibiscus leptocladus																	
	Hibiscus sp.														X			
	Hibiscus sp. Gardneri (A.L. Payne PRP 1435)																	
	Hibiscus sp. Mt Robinson (G. Byrne 3537)																	
	Hibiscus sturtii var. *campylochlamys*																	

	Hibiscus sturtii var. *platychlamys*				X												X	
	Malvaceae sp.																	
	Melhania oblongifolia																	
	Seringia exastia																	
	Sida ?*arenicola*				X				X	X								
	Sida ?*cardiophylla*																	
	Sida ?*fibulifera*																	
	Sida ?*platycalyx*																	
	Sida ?sp. Articulation below (A.A. Mitchell PRP 1605)				X					X	X		X	X				
	Sida ?sp. L (A.M. Ashby 4202)			X														
	Sida cardiophylla																	
	Sida echinocarpa						X			X								
	Sida fibulifera		X		X		X			X	X	X	X					
	Sida sp.		X		X				X	X				X	X		X	
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)																	
	Sida sp. Barlee Range (S. van Leeuwen 1642)																	
	Sida sp. Excedentifolia (J.L. Egan 1925)																	
	Sida sp. L (A.M. Ashby 4202)																	
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)																	
	Sida ?sp. Pilbara (A.A. Mitchell PRP 1543)																	
	Sida ?sp. spiciform panicles (E. Leyland s.n. 14/8/90)																	
	Triumfetta ?*leptacantha*																	
	Triumfetta leptacantha																	
	Triumfetta maconochieana																	
	Triumfetta sp.																	
	Waltheria indica	X															X	
Menispermaceae	*Tinospora smilacina*																	
Molluginaceae	*Trigastrotheca molluginea*				X											X	X	
Moraceae	*Ficus brachypoda*																	
Myrtaceae	*Calytrix carinata*					X									X			
	Corymbia ?*deserticola* subsp. *deserticola*													X				
	Corymbia ?*hamersleyana*	X		X														
	Corymbia deserticola subsp. *deserticola*																	
	Corymbia ferriticola																	
	Corymbia hamersleyana				X	X		X	X	X					X	X		
	Corymbia deserticola ?subsp. *deserticola*																	
	Eucalyptus ?*victrix*																	
	Eucalyptus gamophylla				X	X		X	X	X						X		
	Eucalyptus kingsmillii																	
	Eucalyptus leucophloia subsp. *leucophloia*																	
	Eucalyptus victrix																	
	Eucalyptus ?*xerothermica*																	
Nyctaginaceae	*Boerhavia coccinea*		X				X						X					
	Boerhavia sp.																	
Oleaceae	*Jasminum didymum* subsp. *lineare*			X						X							X	X
Phyllanthaceae	*Dendrophyllanthus erwinii*																	
	Flueggea virosa subsp. *melanthesoides*																	
	Nellica maderaspatensis			X													X	
	Notoleptopus decaisnei	X		X														
	Synostemon hamersleyensis																	
Poaceae	**Cenchrus ciliaris*	X	X	X	X		X						X			X	X	
	**Cenchrus setiger*																	
	**Setaria verticillata*																	
	Amphipogon ?*sericeus*		X															
	Aristida ?*holathera* var. *holathera*			X	X		X				X	X	X		X	X		
	Aristida burbidgeae																	

	Aristida contorta	X			X		X				X	X	X	X				
	Aristida holathera var. *holathera*								X						X	X		
	Aristida inaequiglumis			X													X	
	Aristida sp.																	
	Brachyachne sp.																	
	Chrysopogon fallax						X	X			X	X	X					
	Cymbopogon ambiguus	X			X	X								X		X		
	Cynanchum floribundum																	
	Enneapogon caerulescens	X		X														
	Enneapogon lindleyanus																X	
	Enneapogon polyphyllus						X			X	X	X	X				X	
	Eragrostis eriopoda	X			X		X		X		X					X		
	Eragrostis olida																	
	Eriachne aristidea				X													
	Eriachne lanata					X												
	Eriachne mucronata					X											X	
	Eriachne pulchella subsp. *dominii*																	
	Eriachne pulchella subsp. *pulchella*	X		X													X	
	Eulalia aurea		X			X				X		X	X					
	Neurachne muelleri	X		X	X	X	X		X	X				X				
	Panicum decompositum											X						
	Paspalidium clementii																X	
	Paspalidium tabulatum																	
	Poaceae sp.																	
	Themeda ?triandra																	
	Themeda triandra	X					X				X							
	Triodia ?basedowii		X		X			X		X					X	X		
	Triodia ?epactia																	
	Triodia ?epactia/pungens														X	X		
	Triodia ?vanleeuwenii						X		X					X				
	Triodia basedowii																	
	Triodia brizoides																	
	Triodia epactia	X	X	X														
	Triodia pungens							X			X	X	X				X	
	Triodia sp.																	
	Triodia vanleeuwenii					X												X
	Triodia wiseana					X												X
Portulacaceae	*Portulaca oleracea*		X				X				X	X	X					
Proteaceae	*Grevillea berryana*												X					
	Grevillea pyramidalis subsp. *leucadendron*																	
	Grevillea wickhamii ?subsp.	X		X		X		X							X	X	X	
	Grevillea wickhamii subsp. *hispidula*				X													
	Hakea chordophylla					X									X	X		
	Hakea lorea subsp. *lorea*				X				X			X	X					
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*		X								X	X	X					
	Cheilanthes sp.																	
Rubiaceae	*Dolichocarpa crouchiana*																	
	Dolichocarpa sp.																	
	Psydrax latifolia		X				X	X	X		X	X	X					
Santalaceae	*Anthobolus leptomerioides*							X			X	X	X	X				X
	Santalum lanceolatum			X													X	
	Santalum spicatum																	
Sapindaceae	*Atalaya hemiglauca*																X	
	Dodonaea coriacea																	
	Dodonaea lanceolata var. *lanceolata*																	
	Dodonaea pachyneura																	

	Dodonaea petiolaris					X	X			X	X	X	X					
Scrophulariaceae	*Eremophila ?jucunda* subsp. *pulcherrima*																	
	Eremophila cuneifolia																	X
	Eremophila forrestii subsp. *forrestii*		X		X					X		X	X					
	Eremophila latrobei subsp. *filiformis*		X									X	X					
	Eremophila longifolia		X									X				X		
	Eremophila magnifica subsp. *magnifica*																	
Solanaceae	*Nicotiana benthamiana*																	
	Solanum ?lasiophyllum																	
	Solanum ?phlomoides			X			X			X	X		X	X	X			
	Solanum cleistogamum																X	
	Solanum perarmatum																	
	Solanum phlomoides																	
	Solanum sp.																	
Surianaceae	*Stylobasium spathulatum*																	
Violaceae	*Afrohybanthus aurantiacus*	X		X	X	X				X					X		X	
Zygophyllaceae	*Tribulopis angustifolia*																	
	Tribulus ?hirsutus																	
	Tribulus ?macrocarpus		X							X			X			X		
	Tribulus ?platypterus																	
	Tribulus astrocarpus						X					X						
	Tribulus macrocarpus				X													
	Tribulus sp.																	
	Tribulus suberosus			X			X								X			
Indet.	Indet. sp.																	

J.2 Relevés

Family	Taxon	SGDr001	SGDr002	SGDr004	SGDr005	SGDr007	SGDr008	SGDr009	SGDr020	SGDr021	SGDr022	SGDr023	SGDr060	SGDr061	SGDr062
Acanthaceae	*Dipteracanthus australasicus* subsp. *australasicus*														
	Rostellularia adscendens var. *latifolia*														
Aizoaceae	*Trianthema pilosum*														
	Trianthema triquetrum														
	Zaleya galericulata subsp. *galericulata*														
Amaranthaceae	**Aerva javanica*														
	Amaranthus cuspidifolius														
	Amaranthus undulatus														
	Gomphrena affinis subsp. *pilbarensis*														
	Gomphrena canescens subsp. *canescens*														
	Gomphrena cunninghamii														
	Gomphrena sp.														
	Ptilotus ?clementii														X
	Ptilotus ?fusifomis														
	Ptilotus ?rotundifolius														
	Ptilotus astrolasius			X							X				
	Ptilotus calostachyus								X	X		X		X	X
	Ptilotus clementii														
	Ptilotus exaltatus	X	X	X				X		X	X			X	X
	Ptilotus fusiformis				X					X					
	Ptilotus obovatus var. *obovatus*							X							
	Ptilotus polystachyus														
	Ptilotus rotundifolius														
	Ptilotus sp.	X	X			X		X					X		
Apocynaceae	*?Leichhardtia australis*														
	Cynanchum floribundum														
	Cynanchum viminale subsp. *australe*														
	Vincetoxicum lineare														
Araliaceae	*Astrotricha hamptonii*														
	Trachymene oleracea subsp. *oleracea*														
	Trachymene sp.														
Asteraceae	*Pentalepis trichodesmoides* subsp. *trichodesmoides*														
	Peripleura virgata														
	Pluchea dunlopii														
	Pluchea tetranthera														
	Pterocaulon sp.					X									
	Pterocaulon sphacelatum							X							
	Streptoglossa decurrens														
Boraginaceae	*Ehretia saligna* var. *saligna*														
	Euploca ?chrysocarpa														
	Euploca cunninghamii														
	Euploca glabella														
	Euploca pachyphylla							X			X				
	Euploca sp.												X		
	Euploca tanythrix							X							
	Euploca tenuifolia														
	Trichodesma zeylanicum var. *zeylanicum*			X	X										
Brassicaceae	*Lepidium platypetalum*														
	Lepidium sp.		X												
Capparaceae	*Capparis lasiantha*														
	Capparis spinosa subsp. *nummularia*				X										
Caryophyllaceae	*Polycarpaea ?longiflora*														
	Polycarpaea longiflora														

	Polycarpaea sp.														
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)								X						
	Stackhousia sp.														
Chenopodiaceae	*Dysphania rhadinostachya* subsp. *rhadinostachya*														
	Enchylaena tomentosa var. *tomentosa*														
	Maireana ?tomentosa subsp. *tomentosa*														
	Maireana planifolia														
	Maireana sp.														
	Maireana tomentosa subsp. *tomentosa*														
	Rhagodia eremaea														
	Salsola australis														
	Sclerolaena cornishiana														
	Sclerolaena sp.														
Cleomaceae	*Arivela viscosa*			X	X										
Convolvulaceae	*Bonamia erecta*								X						
	Bonamia pilbarensis														
	Duperreya commixta														
	Evolvulus alsinoides var. *decumbens*														
	Evolvulus alsinoides var. *villosicalyx*														
	Polymeria ?ambigua														
	Polymeria mollis														
Cucurbitaceae	*Cucumis variabilis*				X										
Cyperaceae	*Cyperus cunninghamii* subsp. *cunninghamii*														
	Cyperus sp.														
	Fimbristylis simulans														
Euphorbiaceae	**Euphorbia hirta*														
	Euphorbia ?biconvexa														
	Euphorbia ?trigonosperma														
	Euphorbia australis var. *hispidula*														
	Euphorbia australis var. *subtomentosa*														
	Euphorbia biconvexa				X										
	Euphorbia careyi			X	X										
	Euphorbia tannensis subsp. *eremophila*										X				
	Euphorbia trigonosperma														
	*Euphorbia vaccaria ?*var. *vaccaria*														
Fabaceae	*Acacia ?adsurgens*														
	Acacia ?aneura														
	Acacia ?aptaneura														
	Acacia ?elachantha														
	Acacia ?paraneura														
	Acacia adoxa var. *adoxa*	X			X					X					
	Acacia adoxa var. *adoxa* x *Acacia spondylophylla*	X	X												
	Acacia adsurgens														
	Acacia ancistrocarpa			X				X							
	Acacia aptaneura														
	Acacia arida														
	Acacia atkinsiana														
	Acacia bivenosa							X				X	X	X	
	Acacia colei var. *colei*														
	Acacia dictyophleba							X			X				
	Acacia elachantha														
	Acacia hamersleyensis														
	Acacia hilliana	X	X							X					
	Acacia inaequilatera				X					X				X	
	Acacia maitlandii	X	X			X	X			X					
	Acacia marramamba														

Acacia monticola				X					X					
Acacia pachyacra														
Acacia pruinocarpa					X		X				X	X		
Acacia pyrifolia ?var.														
Acacia pyrifolia ?var. *pyrifolia*														
Acacia pyrifolia var. *pyrifolia*							X			X	X		X	
Acacia rhodophloia														
Acacia sclerosperma subsp. *sclerosperma*														
Acacia sericophylla					X	X	X							
Acacia sp.														
Acacia sp. (aneura complex)														
Acacia spondylophylla		X	X		X	X						X		
Acacia synchronicia											X			
Acacia tenuissima							X					X		
Acacia trachycarpa														
Acacia trudgeniana						X								
Acacia tumida ?var.								X						
Acacia tumida var. *pilbarensis*			X										X	
Acacia wanyu														
Acacia xiphophylla														
Cajanus ?*cinereus*														
Crotalaria medicaginea var. *neglecta*														
Crotalaria novae-hollandiae subsp. *novae-hollandiae*														
Cullen pustulatum														
Glycine canescens														
Gompholobium oreophilum		X	X	X	X	X								
Indigofera ?*fractiflexa*														
Indigofera colutea														
Indigofera monophylla	X		X					X						
Indigofera sp.														
Isotropis atropurpurea														
Mirbelia viminalis														
Petalostylis labicheoides			X											
Rhynchosia bungarensis														
Rhynchosia minima							X							
Senna ?*glaucifolia*														
Senna artemisioides subsp. *helmsii*							X			X				
Senna artemisioides subsp. *oligophylla*	X		X			X	X							
Senna glaucifolia														
Senna glutinosa subsp. ×*luerssenii*														X
Senna glutinosa subsp. *glutinosa*	X	X		X		X			X		X		X	
Senna glutinosa subsp. *glutinosa* ?*x*														
Senna glutinosa subsp. *pruinosa*											X			
Senna notabilis							X							
Senna sp.														
Senna stricta														
Senna venusta				X										
Swainsona formosa														
Templetonia hookeri														
Tephrosia ?*densa*							X							
Tephrosia ?*rosea* var. Fortescue Creeks (M.I.H Brooker 2186)														
Tephrosia arenicola														
Tephrosia densa			X											
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)														
Tephrosia sp.														
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)														

	Tephrosia virens														
Goodeniaceae	?*Goodenia stobbsiana*														
	Dampiera candicans			X	X	X									
	Goodenia ?*stobbsiana*														
	Goodenia ?*triodiophila*														
	Goodenia cusackiana			X											
	Goodenia microptera							X							
	Goodenia muelleriana			X				X							
	Goodenia sp.														
	Goodenia stobbsiana									X					
	Goodenia triodiophila														
	Scaevola ?*browniana*														
	Scaevola browniana subsp. *browniana*	X													
	Scaevola parvifolia subsp. ?*pilbarae*								X						
	Scaevola parvifolia subsp. *pilbarae*														
	Scaevola spinescens														
Gyrostemonaceae	*Codonocarpus cotinifolius*														
Lamiaceae	*Clerodendrum* ?*tomentosum* var. *lanceolatum*														
	Clerodendrum floribundum var. *angustifolium*														
	Clerodendrum sp.														
	Dicrastylis cordifolia								X						
	Newcastelia clavipetala														
Lauraceae	*Cassytha capillaris*														
Loranthaceae	*Diplatia grandibractea*														
Malvaceae	**Malvastrum americanum*														
	?*Abutilon* sp.														
	Abutilon ?sp. Dioicum (A.A. Mitchell PRP 1618)				X										
	Abutilon fraseri subsp. *fraseri*														
	Abutilon lepidum														X
	Abutilon macrum														
	Abutilon otocarpum														
	Abutilon sp.				X										
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)														
	Androcalva luteiflora														
	Brachychiton acuminatus														
	Corchorus ?*lasiocarpus* subsp. *lasiocarpus*														
	Corchorus ?*tectus*														
	Corchorus aff. *tectus*														
	Corchorus crozophorifolius		X						X						
	Corchorus incanus subsp. *lithophilus*				X										
	Corchorus lasiocarpus ?subsp. *parvus*														
	Corchorus lasiocarpus subsp. *lasiocarpus*										X				
	Corchorus sp.			X	X			X						X	
	Corchorus tridens														
	Corchorus lasiocarpus ?subsp. *lasiocarpus*														X
	Gossypium australe			X											
	Gossypium robinsonii			X	X										
	Hibiscus ?*brachychlaenus*														
	Hibiscus burtonii														
	Hibiscus coatesii														
	Hibiscus leptocladus														
	Hibiscus sp.														
	Hibiscus sp. Gardneri (A.L. Payne PRP 1435)														
	Hibiscus sp. Mt Robinson (G. Byrne 3537)														
	Hibiscus sturtii var. *campylochlamys*														
	Hibiscus sturtii var. *platychlamys*														

	Malvaceae sp.														
	Melhania oblongifolia														
	Seringia exastia														
	Sida ?arenicola														
	Sida ?cardiophylla														
	Sida ?fibulifera														
	Sida ?platycalyx														
	Sida ?sp. Articulation below (A.A. Mitchell PRP 1605)		X		X	X									
	Sida ?sp. L (A.M. Ashby 4202)														
	Sida cardiophylla														
	Sida echinocarpa														
	Sida fibulifera														
	Sida sp.							X							
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)														
	Sida sp. Barlee Range (S. van Leeuwen 1642)														
	Sida sp. Excedentifolia (J.L. Egan 1925)														
	Sida sp. L (A.M. Ashby 4202)														
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)														
	Sida ?sp. Pilbara (A.A. Mitchell PRP 1543)														
	Sida ?sp. spiciform panicles (E. Leyland s.n. 14/8/90)														
	Triumfetta ?*leptacantha*														
	Triumfetta leptacantha														
	Triumfetta maconochieana														
	Triumfetta sp.														
	Waltheria indica														
Menispermaceae	*Tinospora smilacina*														
Molluginaceae	*Trigastrotheca molluginea*							X						X	X
Moraceae	*Ficus brachypoda*														
Myrtaceae	*Calytrix carinata*											X			
	Corymbia ?deserticola subsp. *deserticola*					X									
	Corymbia ?hamersleyana						X								
	Corymbia deserticola subsp. *deserticola*														
	Corymbia ferriticola														
	Corymbia hamersleyana		X	X	X				X	X	X	X		X	
	Corymbia deserticola ?subsp. *deserticola*														
	Eucalyptus ?victrix														
	Eucalyptus gamophylla	X	X					X	X					X	
	Eucalyptus kingsmillii														
	Eucalyptus leucophloia subsp. *leucophloia*	X	X	X	X	X	X			X			X		X
	Eucalyptus victrix														
	Eucalyptus ?xerothermica														
Nyctaginaceae	*Boerhavia coccinea*														
	Boerhavia sp.														
Oleaceae	*Jasminum didymum* subsp. *lineare*				X						X				
Phyllanthaceae	*Dendrophyllanthus erwinii*							X							
	Flueggea virosa subsp. *melanthesoides*														
	Nellica maderaspatensis														
	Notoleptopus decaisnei														
	Synostemon hamersleyensis														
Poaceae	**Cenchrus ciliaris*										X				
	**Cenchrus setiger*														
	**Setaria verticillata*														
	Amphipogon ?sericeus					X									
	Aristida ?holathera var. *holathera*		X	X	X			X							
	Aristida burbidgeae														
	Aristida contorta														

	Aristida holathera var. *holathera*								X				X	X	
	Aristida inaequiglumis														
	Aristida sp.				X										
	Brachyachne sp.														
	Chrysopogon fallax														
	Cymbopogon ambiguus			X	X										
	Cynanchum floribundum														
	Enneapogon caerulescens														
	Enneapogon lindleyanus														
	Enneapogon polyphyllus			X											
	Eragrostis eriopoda														
	Eragrostis olida							X							
	Eriachne aristidea							X							
	Eriachne lanata				X							X			
	Eriachne mucronata	X			X					X	X				
	Eriachne pulchella subsp. *dominii*														
	Eriachne pulchella subsp. *pulchella*						X								X
	Eulalia aurea														
	Neurachne muelleri			X			X	X							
	Panicum decompositum														
	Paspalidium clementii														
	Paspalidium tabulatum														
	Poaceae sp.														
	Themeda ?triandra														
	Themeda triandra			X	X										
	Triodia ?basedowii							X							
	Triodia ?epactia														
	Triodia ?epactia/pungens								X		X				
	Triodia ?vanleeuwenii														
	Triodia basedowii														
	Triodia brizoides														
	Triodia epactia			X											
	Triodia pungens													X	
	Triodia sp.				X										
	Triodia vanleeuwenii	X	X			X	X								X
	Triodia wiseana	X	X			X	X			X		X	X	X	X
Portulacaceae	*Portulaca oleracea*														
Proteaceae	*Grevillea berryana*														
	Grevillea pyramidalis subsp. *leucadendron*														
	Grevillea wickhamii ?subsp.		X	X	X	X	X	X	X	X	X	X	X	X	X
	Grevillea wickhamii subsp. *hispidula*														
	Hakea chordophylla	X	X											X	
	Hakea lorea subsp. *lorea*											X			
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*														
	Cheilanthes sp.														
Rubiaceae	*Dolichocarpa crouchiana*			X	X	X									
	Dolichocarpa sp.														
	Psydrax latifolia												X		
Santalaceae	*Anthobolus leptomerioides*														
	Santalum lanceolatum			X											
	Santalum spicatum														
Sapindaceae	*Atalaya hemiglauca*				X						X				
	Dodonaea coriacea								X						
	Dodonaea lanceolata var. *lanceolata*														
	Dodonaea pachyneura														
	Dodonaea petiolaris														

Scrophulariaceae	*Eremophila ?jucunda* subsp. *pulcherrima*				X	X							X		
	Eremophila cuneifolia														
	Eremophila forrestii subsp. *forrestii*														
	Eremophila latrobei subsp. *filiformis*														
	Eremophila longifolia										X				
	Eremophila magnifica subsp. *magnifica*														
Solanaceae	*Nicotiana benthamiana*														
	Solanum ?lasiophyllum														
	Solanum ?phlomoides			X	X			X							
	Solanum cleistogamum					X									
	Solanum perarmatum														
	Solanum phlomoides														
	Solanum sp.														
Surianaceae	*Stylobasium spathulatum*				X										
Violaceae	*Afrohybanthus aurantiacus*							X	X						
Zygophyllaceae	*Tribulopis angustifolia*														
	Tribulus ?hirsutus														
	Tribulus ?macrocarpus														
	Tribulus ?platypterus														
	Tribulus astrocarpus														
	Tribulus macrocarpus														
	Tribulus sp.														
	Tribulus suberosus														
Indet.	Indet. sp.														

Family	Taxon	SGDr063	SGDr064	SGDr065	SGDr066	SGDr067	SGDr068	SGDr069	SGDr070	SGDr071	SGDr072	SGDr073	SGDr074	SGDr075	SGDr076	Opportunistic
Acanthaceae	*Dipteracanthus australasicus* subsp. *australasicus*															
	Rostellularia adscendens var. *latifolia*															
Aizoaceae	*Trianthema pilosum*															
	Trianthema triquetrum															
	Zaleya galericulata subsp. *galericulata*															
Amaranthaceae	**Aerva javanica*															X
	Amaranthus cuspidifolius															
	Amaranthus undulatus															
	Gomphrena affinis subsp. *pilbarensis*					X										
	Gomphrena canescens subsp. *canescens*															
	Gomphrena cunninghamii															
	Gomphrena sp.															
	Ptilotus ?*clementii*															
	Ptilotus ?*fusifomis*															
	Ptilotus ?*rotundifolius*															
	Ptilotus astrolasius			X					X					X		
	Ptilotus calostachyus	X	X	X	X		X	X						X	X	
	Ptilotus clementii															X
	Ptilotus exaltatus	X	X	X					X				X	X	X	
	Ptilotus fusiformis								X							
	Ptilotus obovatus var. *obovatus*	X	X			X									X	
	Ptilotus polystachyus															
	Ptilotus rotundifolius															
	Ptilotus sp.				X	X										
Apocynaceae	?*Leichhardtia australis*															
	Cynanchum floribundum															
	Cynanchum viminale subsp. *australe*															X
	Vincetoxicum lineare															
Araliaceae	*Astrotricha hamptonii*															X
	Trachymene oleracea subsp. *oleracea*															
	Trachymene sp.															
Asteraceae	*Pentalepis trichodesmoides* subsp. *trichodesmoides*															
	Peripleura virgata															
	Pluchea dunlopii															
	Pluchea tetranthera															
	Pterocaulon sp.															
	Pterocaulon sphacelatum															
	Streptoglossa decurrens															
Boraginaceae	*Ehretia saligna* var. *saligna*															
	Euploca ?*chrysocarpa*															
	Euploca cunninghamii														X	
	Euploca glabella															X
	Euploca pachyphylla															
	Euploca sp.													X		
	Euploca tanythrix															
	Euploca tenuifolia															
	Trichodesma zeylanicum var. *zeylanicum*			X		X									X	
Brassicaceae	*Lepidium platypetalum*															
	Lepidium sp.															
Capparaceae	*Capparis lasiantha*															
	Capparis spinosa subsp. *nummularia*					X										X
Caryophyllaceae	*Polycarpaea* ?*longiflora*															
	Polycarpaea longiflora															

	Polycarpaea sp.															
Celastraceae	*Maytenus* sp. Mt Windell (S. van Leeuwen 846)															
	Stackhousia sp.															X
Chenopodiaceae	*Dysphania rhadinostachya* subsp. *rhadinostachya*															
	Enchylaena tomentosa var. *tomentosa*															
	Maireana ?*tomentosa* subsp. *tomentosa*															
	Maireana planifolia															
	Maireana sp.	X														X
	Maireana tomentosa subsp. *tomentosa*															
	Rhagodia eremaea												X			
	Salsola australis												X			
	Sclerolaena cornishiana												X			
	Sclerolaena sp.															
Cleomaceae	*Arivela viscosa*														X	
Convolvulaceae	*Bonamia erecta*			X												
	Bonamia pilbarensis															
	Duperreya commixta		X			X										
	Evolvulus alsinoides var. *decumbens*															X
	Evolvulus alsinoides var. *villosicalyx*														X	
	Polymeria ?*ambigua*															
	Polymeria mollis															
Cucurbitaceae	*Cucumis variabilis*					X										
Cyperaceae	*Cyperus cunninghamii* subsp. *cunninghamii*					X										
	Cyperus sp.															
	Fimbristylis simulans															X
Euphorbiaceae	**Euphorbia hirta*															X
	Euphorbia ?*biconvexa*															
	Euphorbia ?*trigonosperma*															
	Euphorbia australis var. *hispidula*															
	Euphorbia australis var. *subtomentosa*															
	Euphorbia biconvexa		X													
	Euphorbia careyi					X										X
	Euphorbia tannensis subsp. *eremophila*			X											X	
	Euphorbia trigonosperma					X										
	Euphorbia vaccaria ?var. *vaccaria*															
Fabaceae	*Acacia* ?*adsurgens*															
	Acacia ?*aneura*															
	Acacia ?*aptaneura*	X														
	Acacia ?*elachantha*															
	Acacia ?*paraneura*															
	Acacia adoxa var. *adoxa*															
	Acacia adoxa var. *adoxa* x *Acacia spondylophylla*															
	Acacia adsurgens													X		
	Acacia ancistrocarpa															X
	Acacia aptaneura															
	Acacia arida															X
	Acacia atkinsiana															
	Acacia bivenosa											X				
	Acacia colei var. *colei*															
	Acacia dictyophleba		X													
	Acacia elachantha															
	Acacia hamersleyensis															
	Acacia hilliana															
	Acacia inaequilatera			X												
	Acacia maitlandii					X				X						X
	Acacia marramamba															

Acacia monticola		X													
Acacia pachyacra															
Acacia pruinocarpa					X	X	X	X		X	X				
Acacia pyrifolia ?var.															
Acacia pyrifolia ?var. *pyrifolia*															
Acacia pyrifolia var. *pyrifolia*					X									X	
Acacia rhodophloia															X
Acacia sclerosperma subsp. *sclerosperma*															
Acacia sericophylla															
Acacia sp.															X
Acacia sp. (aneura complex)								X							
Acacia spondylophylla							X		X	X	X				X
Acacia synchronicia															
Acacia tenuissima															
Acacia trachycarpa															
Acacia trudgeniana													X		
Acacia tumida ?var.															
Acacia tumida var. *pilbarensis*		X											X	X	
Acacia wanyu															X
Acacia xiphophylla	X											X			
Cajanus ?*cinereus*															
Crotalaria medicaginea var. *neglecta*															
Crotalaria novae-hollandiae subsp. *novae-hollandiae*															
Cullen pustulatum															
Glycine canescens															
Gompholobium oreophilum															
Indigofera ?*fractiflexa*															
Indigofera colutea															
Indigofera monophylla														X	X
Indigofera sp.															
Isotropis atropurpurea															
Mirbelia viminalis															
Petalostylis labicheoides		X					X	X							
Rhynchosia bungarensis															X
Rhynchosia minima		X			X									X	X
Senna ?*glaucifolia*															
Senna artemisioides subsp. *helmsii*															
Senna artemisioides subsp. *oligophylla*		X	X											X	X
Senna glaucifolia															
Senna glutinosa subsp. ×*luerssenii*	X							X				X			X
Senna glutinosa subsp. *glutinosa*			X	X	X				X		X				
Senna glutinosa subsp. *glutinosa* ?*x*															
Senna glutinosa subsp. *pruinosa*													X		
Senna notabilis															
Senna sp.															
Senna stricta															
Senna venusta					X										
Swainsona formosa															
Templetonia hookeri															X
Tephrosia ?*densa*															
Tephrosia ?*rosea* var. Fortescue Creeks (M.I.H Brooker 2186)															
Tephrosia arenicola															
Tephrosia densa													X	X	
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)															
Tephrosia sp.															
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)															

	Tephrosia virens															
Goodeniaceae	?*Goodenia stobbsiana*															X
	Dampiera candicans					X	X									X
	Goodenia ?*stobbsiana*															
	Goodenia ?*triodiophila*															
	Goodenia cusackiana										X					X
	Goodenia microptera															
	Goodenia muelleriana															
	Goodenia sp.							X								
	Goodenia stobbsiana					X	X	X		X						
	Goodenia triodiophila															
	Scaevola ?*browniana*															
	Scaevola browniana subsp. *browniana*							X								X
	Scaevola parvifolia subsp. ?*pilbarae*															
	Scaevola parvifolia subsp. *pilbarae*													X		
	Scaevola spinescens															
Gyrostemonaceae	*Codonocarpus cotinifolius*															X
Lamiaceae	*Clerodendrum* ?*tomentosum* var. *lanceolatum*															
	Clerodendrum floribundum var. *angustifolium*															
	Clerodendrum sp.					X										
	Dicrastylis cordifolia													X		
	Newcastelia clavipetala															X
Lauraceae	*Cassytha capillaris*															
Loranthaceae	*Diplatia grandibractea*															
Malvaceae	**Malvastrum americanum*															X
	?*Abutilon* sp.															
	Abutilon ?sp. Dioicum (A.A. Mitchell PRP 1618)					X										
	Abutilon fraseri subsp. *fraseri*															
	Abutilon lepidum															
	Abutilon macrum															
	Abutilon otocarpum															
	Abutilon sp.		X												X	
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)															
	Androcalva luteiflora		X													
	Brachychiton acuminatus															
	Corchorus ?*lasiocarpus* subsp. *lasiocarpus*														X	
	Corchorus ?*tectus*															
	Corchorus aff. *tectus*															
	Corchorus crozophorifolius															
	Corchorus incanus subsp. *lithophilus*					X										
	Corchorus lasiocarpus ?subsp. *parvus*															
	Corchorus lasiocarpus subsp. *lasiocarpus*															
	Corchorus sp.					X										
	Corchorus tridens															
	Corchorus lasiocarpus ?subsp. *lasiocarpus*															
	Gossypium australe															
	Gossypium robinsonii		X			X									X	
	Hibiscus ?*brachychlaenus*															
	Hibiscus burtonii															
	Hibiscus coatesii															X
	Hibiscus leptocladus															
	Hibiscus sp.								X							
	Hibiscus sp. Gardneri (A.L. Payne PRP 1435)															
	Hibiscus sp. Mt Robinson (G. Byrne 3537)					X										X
	Hibiscus sturtii var. *campylochlamys*															
	Hibiscus sturtii var. *platychlamys*															

	Malvaceae sp.															
	Melhania oblongifolia															
	Seringia exastia															
	Sida ?arenicola															
	Sida ?cardiophylla															
	Sida ?fibulifera															
	Sida ?platycalyx															
	Sida ?sp. Articulation below (A.A. Mitchell PRP 1605)															
	Sida ?sp. L (A.M. Ashby 4202)															
	Sida cardiophylla															
	Sida echinocarpa															
	Sida fibulifera															
	Sida sp.		X	X										X	X	
	Sida sp. Articulation below (A.A. Mitchell PRP 1605)															
	Sida sp. Barlee Range (S. van Leeuwen 1642)															X
	Sida sp. Excedentifolia (J.L. Egan 1925)															X
	Sida sp. L (A.M. Ashby 4202)															
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)															
	Sida ?sp. Pilbara (A.A. Mitchell PRP 1543)															X
	Sida ?sp. spiciform panicles (E. Leyland s.n. 14/8/90)														X	
	Triumfetta ?*leptacantha*															X
	Triumfetta leptacantha															
	Triumfetta maconochieana															
	Triumfetta sp.					X										
	Waltheria indica														X	
Menispermaceae	*Tinospora smilacina*															
Molluginaceae	*Trigastrotheca molluginea*								X						X	
Moraceae	*Ficus brachypoda*					X										X
Myrtaceae	*Calytrix carinata*															
	Corymbia ?deserticola subsp. *deserticola*															
	Corymbia ?hamersleyana															
	Corymbia deserticola subsp. *deserticola*															
	Corymbia ferriticola					X										
	Corymbia hamersleyana		X	X				X		X				X	X	
	Corymbia deserticola ?subsp. *deserticola*															
	Eucalyptus ?victrix															
	Eucalyptus gamophylla													X		
	Eucalyptus kingsmillii															
	Eucalyptus leucophloia subsp. *leucophloia*				X	X	X	X		X	X	X				
	Eucalyptus victrix															
	Eucalyptus ?xerothermica															
Nyctaginaceae	*Boerhavia coccinea*															
	Boerhavia sp.															
Oleaceae	*Jasminum didymum* subsp. *lineare*		X			X							X	X		
Phyllanthaceae	*Dendrophyllanthus erwinii*															
	Flueggea virosa subsp. *melanthesoides*															X
	Nellica maderaspatensis															
	Notoleptopus decaisnei														X	
	Synostemon hamersleyensis					X										X
Poaceae	**Cenchrus ciliaris*		X	X		X									X	65
	**Cenchrus setiger*															X
	**Setaria verticillata*															
	Amphipogon ?sericeus															
	Aristida ?holathera var. *holathera*															
	Aristida burbidgeae					X										
	Aristida contorta															

	Aristida holathera var. *holathera*		X	X											
	Aristida inaequiglumis														
	Aristida sp.														
	Brachyachne sp.											X			
	Chrysopogon fallax														
	Cymbopogon ambiguus					X									
	Cynanchum floribundum														
	Enneapogon caerulescens														
	Enneapogon lindleyanus														
	Enneapogon polyphyllus			X		X									
	Eragrostis eriopoda		X												
	Eragrostis olida														
	Eriachne aristidea														
	Eriachne lanata										X				
	Eriachne mucronata		X			X						X			
	Eriachne pulchella subsp. *dominii*														
	Eriachne pulchella subsp. *pulchella*	X					X		X						
	Eulalia aurea														
	Neurachne muelleri			X											
	Panicum decompositum														
	Paspalidium clementii					X									
	Paspalidium tabulatum					X									
	Poaceae sp.														
	Themeda ?triandra														
	Themeda triandra		X			X									X
	Triodia ?basedowii														
	Triodia ?epactia														
	Triodia ?epactia/pungens														
	Triodia ?vanleeuwenii														
	Triodia basedowii														
	Triodia brizoides				X										
	Triodia epactia		X	X										X	
	Triodia pungens					X							X		
	Triodia sp.														
	Triodia vanleeuwenii						X	X	X			X	X		
	Triodia wiseana	X			X			X	X	X	X	X	X		X
Portulacaceae	*Portulaca oleracea*														X
Proteaceae	*Grevillea berryana*														X
	Grevillea pyramidalis subsp. *leucadendron*														X
	Grevillea wickhamii ?subsp.				X	X	X	X	X	X	X	X	X	X	
	Grevillea wickhamii subsp. *hispidula*														
	Hakea chordophylla							X		X	X		X		
	Hakea lorea subsp. *lorea*														
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*								X						
	Cheilanthes sp.														
Rubiaceae	*Dolichocarpa crouchiana*				X	X									
	Dolichocarpa sp.														
	Psydrax latifolia	X													
Santalaceae	*Anthobolus leptomerioides*														X
	Santalum lanceolatum		X			X								X	
	Santalum spicatum														
Sapindaceae	*Atalaya hemiglauca*		X			X								X	
	Dodonaea coriacea			X											
	Dodonaea lanceolata var. *lanceolata*		X												
	Dodonaea pachyneura					X									
	Dodonaea petiolaris														

Scrophulariaceae	*Eremophila ?jucunda* subsp. *pulcherrima*								X							X
	Eremophila cuneifolia	X											X			X
	Eremophila forrestii subsp. *forrestii*															
	Eremophila latrobei subsp. *filiformis*	X							X							X
	Eremophila longifolia					X									X	
	Eremophila magnifica subsp. *magnifica*															X
Solanaceae	*Nicotiana benthamiana*															
	Solanum ?lasiophyllum															
	Solanum ?phlomoides															
	Solanum cleistogamum															
	Solanum perarmatum					X										
	Solanum phlomoides															
	Solanum sp.								X							
Surianaceae	*Stylobasium spathulatum*					X										
Violaceae	*Afrohybanthus aurantiacus*		X											X	X	
Zygophyllaceae	*Tribulopis angustifolia*															
	Tribulus ?hirsutus															
	Tribulus ?macrocarpus															
	Tribulus ?platypterus															
	Tribulus astrocarpus															
	Tribulus macrocarpus															
	Tribulus sp.															
	Tribulus suberosus	X			X								X			
Indet.	Indet. sp.															X

Appendix H Sample Site Data

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD001	18-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	688305	mE	
Northing	7513972	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		
Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Acacia pruinocarpa* scattered tall shrubs over *Acacia hilliana* , *Acacia spondylophylla* low open shrubland over *Triodia wiseana* , *Triodia vanleeuwenii* open hummock grassland.		

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	SGD001-01	0.8	2
Acacia pruinocarpa	NC	5	1.5
Acacia spondylophylla	NC	0.7	2
Aristida inaequiglumis	=SGD025-06	0.3	0.1
Corchorus lasiocarpus ? subsp. *lasiocarpus*	SGD001-08	0.2	0.1
Corymbia hamersleyana	NC	7	1.5
Dampiera candicans	NC	0.2	0.1
Eremophila latrobei subsp. *filiformis*	NC	0.2	0.1
Eriachne aristidea	=SGD029-03	0.1	0.1
Eriachne lanata	SGD001-07	0.2	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Gompholobium oreophilum	SGD001-02	0.2	0.1
Goodenia sp.	NC	0.1	0.5
Goodenia stobbsiana	SGD001-06	0.1	0.1
Grevillea wickhamii ? subsp.	=SGDr060-01	2.1	0.5
Hakea chordophylla	NC	2.2	0.5
Hibiscus burtonii	SGD001-04	0.5	0.1
Petalostylis labicheoides	NC	2.8	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus clementii	NC	0.2	0.1
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus fusiformis	=SGD081-02	0.2	0.1
Scaevola browniana subsp. *browniana*	SGD001-05	0.05	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.8	0.1
Senna notabilis	NC	0.3	0.1
Sida ? sp. Pilbara (A.A. Mitchell PRP 1543)	SGD001-03	0.3	0.1
Sida ? sp. spiciform panicles (E. Leyland s.n. 14/8/90)	=SGD082-09	0.3	0.1
Solanum ?phlomoides	=SGD064-02	0.2	0.1
Triodia vanleeuwenii	NC	0.2	10
Triodia wiseana	NC	0.5	17

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD003	18-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	688823	mE	
Northing	7513423	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Acacia spondylophylla* low scattered shrubs over *Triodia wiseana* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia marramamba	SGD003-01	1.9	0.5
Acacia spondylophylla	NC	0.8	1
Dampiera candicans	NC	0.05	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	7	3
Goodenia stobbsiana	NC	0.1	0.1
Grevillea wickhamii ? subsp.	=SGDr060-01	3.5	1.5
Ptilotus sp.	NC	0.05	0.1
Triodia wiseana	NC	0.6	40

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD004	18-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	689284	mE	
Northing	7513583	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia hilliana* and *Acacia spondylophylla* low open shrubland over *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	=SGD026-04	0.4	4
Acacia spondylophylla	=SGD036-01	0.5	4
Corymbia deserticola subsp. *deserticola*	SGD004-03	2.8	0.1
Corymbia hamersleyana	=SGD050-08	3.2	0.1
Dampiera candicans	=SGD028-04	0.2	0.1
Eriachne lanata	SGD004-05	0.4	0.1
Eucalyptus leucophloia subsp. *leucophloia*	SGD004-04	2.6	4
Gompholobium oreophilum	SGD004-06	0.1	0.1
Gompholobium oreophilum	=SGD026-08	0.2	0.1
?Goodenia stobbsiana	=SGD028-02	0.1	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	2.7	0.5
Hakea chordophylla	=SGD026-10	2.4	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus sp.	=SGD028-03	0.2	0.1
Triodia vanleeuwenii	SGD004-02	0.3	24
Triodia wiseana	SGD004-01	0.6	0.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD005	19-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	690299	mE	
Northing	7515555	mS	
Site Characteristics			
Landform	Floodplain		
Slope	Low (1-20º)		
Aspect	West		
Condition			
Vegetation Condition	Good		
Disturbance Type	Road access tracks, Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Loam		
Soil Colour	Dark brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia tumida* var. pilbarensis, *Grevillea wickhamii* ?subsp., and *Gossypium robinsonii* tall shrubland over *Corchorus crozophorifolius* and *Ptilotus obovatus* var. *obovatus* low open shrubland over *Triodia pungens* very open hummock grassland over **Cenchrus ciliaris* and **Cenchrus setiger* very open tussock grassland over *Ptilotus astrolasius* scattered herbs.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon ? sp. Dioicum (A.A. Mitchell PRP 1618)	=SGD056-10	1.4	0.1
Acacia pyrifolia var. *pyrifolia*	SGD005-02	1.3	0.1
Acacia pyrifolia var. *pyrifolia*	NC	0.8	0.5
Acacia tumida var. *pilbarensis*	NC	2.5	10
Acacia tumida var. *pilbarensis*	=SGD006-09	3	4
Afrohybanthus aurantiacus	NC	0.4	0.5
Arivela viscosa	NC	0.4	0.1
Boerhavia coccinea	NC	0.2	0.1
**Cenchrus ciliaris*	NC	0.4	5
**Cenchrus setiger*	NC	0.5	3
Corchorus crozophorifolius	NC	0.6	3
Cucumis variabilis	NC	1.5	0.1
Cymbopogon ambiguus	NC	0.9	0.1
Enneapogon caerulescens	NC	0.3	0.1
Eriachne mucronata	NC	0.3	0.1
Eriachne pulchella subsp. *dominii*	NC	0.1	0.1
Euploca tenuifolia	=SGD006-06	0.3	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.3	0.1
Gomphrena affinis subsp. *pilbarensis*	=SGD103-10	0.2	0.1
Gossypium robinsonii	NC	2.5	1
Grevillea wickhamii ? subsp.	=SGD124-05	5	7
Nellica maderaspatensis	NC	0.2	0.1
Notoleptopus decaisnei	SGD005-03	0.2	0.1
Polycarpaea sp.	NC	0.1	0.1
Ptilotus astrolasius	=SGD103-12	0.3	1.5
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.4	0.5
Ptilotus obovatus var. *obovatus*	NC	0.9	2
Rostellularia adscendens var. *latifolia*	=SGD006-10	0.2	0.1
Salsola australis	NC	0.1	0.1

Taxon	Collection Code	Height (m)	Cover (%)
**Setaria verticillata*	=SGD018-04	0.2	0.1
Solanum ?lasiophyllum	NC	0.9	0.1
Tephrosia ?rosea var. Fortescue Creeks (M.I.H Brooker 2186)	=SGD006-07	0.2	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	1.3	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia pungens	SGD005-01	0.5	5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD006	18-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	690256	mE	
Northing	7515935	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Poor		
Disturbance Type	Weed invasion		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia tumida* var. pilbarensis and *Grevillea wickhamii* ?subsp. tall shrubland over *Acacia pyrifolia* var. *pyrifolia*, *Corchorus crozophorifolius*, and *Atalaya hemiglauca* open shrubland over *Ptilotus obovatus* var. *obovatus* low open shrubland over *Triodia* ?*epactia*/*pungens* and *Triodia pungens* very open hummock grassland over **Cenchrus ciliaris* and **Cenchrus setiger* open tussock grassland over *Ptilotus astrolasius* very open herbland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon macrum	SGD006-08	0.4	0.1
Acacia pyrifolia var. *pyrifolia*	SGD006-03	1.5	3
Acacia tumida var. *pilbarensis*	NC	2.5	8
Acacia tumida var. *pilbarensis*	SGD006-09	4	3
Afrohybanthus aurantiacus	NC	0.3	0.1
Arivela viscosa	NC	0.3	0.1
Atalaya hemiglauca	=SGD043-04	1.6	1
Boerhavia coccinea	NC	0.1	0.1
**Cenchrus ciliaris*	NC	0.3	15
**Cenchrus setiger*	NC	0.4	2
Clerodendrum floribundum var. *angustifolium*	=SGD085-02	2.3	0.1
Corchorus crozophorifolius	NC	1.1	2
Cucumis variabilis	NC	1.4	0.1
Cymbopogon ambiguus	NC	0.8	0.1
Duperreya commixta	NC	1.4	0.1
Enneapogon caerulescens	NC	0.3	0.1
Enneapogon polyphyllus	NC	0.1	0.1
Eremophila longifolia	NC	1.5	0.1
Eriachne mucronata	NC	0.3	0.5
Eriachne pulchella subsp. *dominii*	NC	0.1	0.1
Euploca tenuifolia	SGD006-06	0.2	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.3	0.1
Gomphrena affinis subsp. *pilbarensis*	=SGD103-10	0.3	0.1
Grevillea wickhamii ? subsp.	SGD006-04	3	3
Indigofera monophylla	NC	0.3	0.1
Jasminum didymum subsp. *lineare*	NC	1.9	0.1
Maytenus sp. Mt Windell (S. van Leeuwen 846)	=SGDr020-4	2.9	0.1
Nellica maderaspatensis	NC	0.3	0.1
Polycarpaea sp.	NC	0.1	0.1
Ptilotus astrolasius	=SGD103-12	0.4	2

Taxon	Collection Code	Height (m)	Cover (%)
Ptilotus exaltatus	NC	0.3	0.5
Ptilotus obovatus var. *obovatus*	NC	0.6	4
Rostellularia adscendens var. *latifolia*	SGD006-10	0.2	0.1
Salsola australis	NC	0.4	0.1
Solanum ?phlomoides	NC	0.3	0.1
Tephrosia ?rosea var. Fortescue Creeks (M.I.H Brooker 2186)	SGD006-07	0.4	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.1	0.1
Triodia ?epactia/pungens	SGD006-01	0.4	4
Triodia pungens	SGD006-02	0.5	2
Waltheria indica	SGD006-05	0.5	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD007	18-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	689209	mE	
Northing	7514018	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Hakea chordophylla*, *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia spondylophylla* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	=SGD001-01	0.6	0.5
Acacia inaequilatera	NC	2.5	0.5
Acacia pruinocarpa	NC	0.5	0.1
Acacia spondylophylla	NC	0.8	4
Corchorus sp.	NC	0.2	0.1
Corchorus sp.	SGD007-03	0.4	0.1
Corymbia hamersleyana	NC	5	1.5
Dampiera candicans	NC	0.1	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	5.5	6
Fimbristylis simulans	=DRopp07-01	0.1	0.1
Goodenia microptera	SGD007-02	0.1	0.1
Goodenia stobbsiana	NC	0.1	0.5
Grevillea wickhamii ? subsp.	=SGDr060-01	2.5	1.5
Hakea chordophylla	NC	3.5	1
Hibiscus sp.	NC	0.1	0.1
Hibiscus sturtii var. *campylochlamys*	SGD007-04	0.3	0.1
Petalostylis labicheoides	NC	1.5	0.1
Polycarpaea sp.	NC	0.1	0.1
Ptilotus astrolasius	NC	0.2	0.1
Ptilotus calostachyus	NC	0.4	0.1
Ptilotus exaltatus	NC	0.05	0.1
Ptilotus fusiformis	=SGD081-02	0.2	0.1
Scaevola browniana subsp. *browniana*	=SGD001-05	0.1	0.1
Senna glaucifolia	SGD007-01	0.9	0.1
Senna notabilis	NC	0.1	0.1
Solanum ?phlomoides	=SGD064-02	0.1	0.1
Tephrosia sp.	NC	0.2	0.1
Trigastrotheca molluginea	NC	0.05	0.1
Triodia vanleeuwenii	NC	0.3	20

Taxon	Collection Code	Height (m)	Cover (%)
Triodia wiseana	NC	0.6	15

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD008	18-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	690230	mE	
Northing	7513961	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Corymbia ?hamersleyana* low open woodland over *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia spondylophylla* and *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* open hummock grassland over *Eriachne lanata* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	=SGD026-04	0.3	2
Acacia spondylophylla	=SGD036-01	0.6	3
Bonamia pilbarensis	SGD008-01	0.2	0.1
Corymbia ?hamersleyana	=SGDr004-09	4.9	2.5
Eriachne lanata	=SGD004-05	0.4	2
Goodenia sp.	NC	0.1	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	2.8	5
Hakea chordophylla	=SGD026-10	0.9	0.1
Ptilotus fusiformis	=SGD070-09	0.3	0.1
Ptilotus sp.	=SGD028-03	0.3	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.2	0.1
Senna glutinosa subsp. *glutinosa*	=SGD048-02	1.3	0.1
Triodia vanleeuwenii	=SGD004-02	0.4	22

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD009	19-03-25	
Dimensions	25 m x 100 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	690666	mE	
Northing	7512298	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Eucalyptus gamophylla* and *Eucalyptus kingsmillii* open mallee over *Mirbelia viminalis* low open shrubland over *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pachyacra	=SGD106-05	0.9	0.1
Corymbia ?deserticola subsp. *deserticola*	=mnJCOR-09-01-01	0.6	0.1
Eucalyptus gamophylla	=SGD026-09	2.4	8
Eucalyptus kingsmillii	=SGD026-05	2.1	4
Eucalyptus leucophloia subsp. *leucophloia*	SGD009-01	3.5	6
Grevillea wickhamii ? subsp.	=SGD026-13	0.4	0.1
Mirbelia viminalis	=SGD030-02	0.5	2.5
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus sp.	=SGD028-03	0.5	0.1
Senna artemisioides subsp. *helmsii*	NC	0.5	0.1
Triodia wiseana	SGD009-02	0.3	26

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD010	19-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	691479	mE	
Northing	7515050	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia bivenosa* open shrubland over *Triodia wiseana* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	1.1	2.5
Acacia spondylophylla	NC	1.1	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	4	3
Hibiscus coatesii	=SGD086-04	0.1	0.1
Ptilotus clementii	=SGD086-05	0.1	0.1
Ptilotus exaltatus	NC	0.1	0.1
Senna artemisioides subsp. *helmsii*	NC	0.1	0.1
Senna glutinosa subsp. *pruinosa*	=SGD060-02	1.4	0.1
Solanum ?phlomoides	NC	0.1	0.1
Triodia wiseana	SGD010-01	0.3	10
Triodia wiseana	SGD010-02	0.2	22

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD011	19-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	691559	mE	
Northing	7514713	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	South-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Hakea chordophylla* tall open shrubland over *Eucalyptus gamophylla* scattered mallee over *Acacia spondylophylla* and *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	NC	0.2	1
Acacia spondylophylla	NC	0.3	2.5
Acacia tenuissima	=SGD042-07	0.9	0.1
Afrohybanthus aurantiacus	NC	0.5	0.1
Cymbopogon ambiguus	NC	0.2	0.1
Diplatia grandibractea	SGD011-04	3	0.1
Eriachne lanata	=SGD042-05	0.2	0.5
Eriachne mucronata	NC	0.3	0.1
Eucalyptus gamophylla	NC	1.9	1.5
Eucalyptus leucophloia subsp. *leucophloia*	NC	4	6
Gompholobium oreophilum	=SGD058-02	0.4	0.1
?Goodenia stobbsiana	=SGD060-04	0.1	0.1
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	0.5	0.1
Hakea chordophylla	=SGD041-06	3	2
Ptilotus astrolasius	=SGD103-12	0.2	0.1
Ptilotus calostachyus	NC	0.2	0.1
Ptilotus exaltatus	NC	0.1	0.1
Scaevola browniana subsp. *browniana*	=SGD040-04	0.3	0.1
Senna artemisioides subsp. *helmsii*	NC	0.3	0.1
Seringia exastia	SGD011-02	0.3	0.1
Triodia vanleeuwenii	SGD011-01	0.3	15
Triodia wiseana	SGD011-03	0.4	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD012	19-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke		
Location (GDA) Zone 50K			
Easting	692742	mE	
Northing	7513663	mS	
Site Characteristics			
Landform	Incline - Footslope		
Slope	Low (1-20º)		
Aspect	South		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Acacia hilliana* and *Acacia spondylophylla* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	=SGD001-01	0.5	5
Acacia pruinocarpa	NC	0.3	0.1
Acacia spondylophylla	NC	0.4	4
Calytrix carinata	=SGD023-03	0.2	0.1
Corymbia hamersleyana	NC	8	2
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	6	3
Eulalia aurea	NC	0.5	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1
Gompholobium oreophilum	=SGD001-02	0.1	0.1
Goodenia sp.	NC	0.1	0.1
Goodenia stobbsiana	=SGD001-06	0.2	0.1
Grevillea wickhamii ? subsp.	=SGDr060-01	3	1.5
Hakea chordophylla	NC	1.9	0.1
Ptilotus calostachyus	NC	0.3	0.1
Scaevola browniana subsp. *browniana*	=SGD001-05	0.1	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.8	0.1
Senna glaucifolia	SGD012-01	1.2	0.1
Triodia vanleeuwenii	NC	0.3	20
Triodia wiseana	NC	0.5	9

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD013	19-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	691601	mE	
Northing	7513196	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia pruinocarpa* scattered shrubs over *Acacia spondylophylla* low open shrubland over *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pruinocarpa	NC	1.3	1
Acacia spondylophylla	=SGD036-01	0.6	4.5
Corchorus ?lasiocarpus subsp. *lasiocarpus*	SGD013-03	0.2	0.1
Eremophila ?jucunda subsp. *pulcherrima*	=mnJCOR-9-2-01	1.2	0.5
Eriachne pulchella subsp. *pulchella*	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	SGD013-02	5.3	3
Grevillea wickhamii ? subsp.	=SGD026-13	3.8	3
Petalostylis labicheoides	=SGD026-03	0.6	0.1
Ptilotus exaltatus	NC	0.1	0.1
Triodia wiseana	SGD013-01	0.4	22

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD015	19-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	691548	mE	
Northing	7512278	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	South-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar, Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia maitlandii	=OppJCOR-02-01	0.7	0.1
Acacia pachyacra	=SGD106-05	0.5	0.5
Acacia pruinocarpa	NC	0.6	0.1
Acacia sericophylla	=SGD107-12	2.8	0.1
Acacia trudgeniana	SGD015-03	0.9	0.1
Corchorus ?lasiocarpus subsp. *lasiocarpus*	=SGD013-03	0.1	0.1
Corymbia ?hamersleyana	=SGDr004-09	4.2	0.5
Dolichocarpa crouchiana	=SGD036-03	0.1	0.1
Eriachne lanata	=SGD075-06	0.4	0.5
Eucalyptus leucophloia subsp. *leucophloia*	=SGD050-01	4.8	4
Goodenia cusackiana	SGD015-02	0.1	0.1
?Goodenia stobbsiana	=SGD028-02	0.1	0.1
Mirbelia viminalis	=SGD030-02	0.4	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus sp.	=SGD028-03	0.3	0.1
Senna ?glaucifolia	NC	0.4	0.1
Senna artemisioides subsp. *helmsii*	NC	0.1	0.1
Sida ?cardiophylla	SGD015-04	0.4	0.1
Triodia vanleeuwenii	SGD015-01	0.2	22

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD016	18-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	690767	mE	
Northing	7513403	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Eucalyptus gamophylla* low open mallee over *Mirbelia viminalis* and *Acacia spondylophylla* low open shrubland over *Triodia wiseana* open hummock grassland over *Eriachne lanata* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pachyacra	=SGD106-05	2.1	0.1
Acacia spondylophylla	=SGD036-01	0.4	3
Bonamia erecta	SGD016-02	0.2	0.1
Corymbia hamersleyana	=SGD050-08	3.4	2.5
Eriachne lanata	=SGD004-05	0.3	2.5
Eucalyptus gamophylla	=SGD026-09	2.4	5
Eucalyptus leucophloia subsp. *leucophloia*	=SGD075-02	4.6	4
Grevillea wickhamii ? subsp.	=SGD070-03	2.1	0.5
Mirbelia viminalis	=SGD030-02	0.4	3
Ptilotus sp.	=SGD028-03	0.5	0.1
Triodia wiseana	SGD016-01	0.4	24

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD017	18-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	690579	mE	
Northing	7516633	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Eucalyptus gamophylla* low mallee over *Acacia inaequilatera* tall open shrubland over *Corchorus lasiocarpus* subsp. *lasiocarpus* scattered low shrubs over *Triodia ?basedowii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.4	0.1
Acacia adsurgens	SGD017-04	0.8	0.1
Acacia dictyophleba	=SGD061-02	1.5	0.5
Acacia inaequilatera	NC	2.5	2.5
Acacia sericophylla	=SGD019-05	1.3	0.5
Acacia tenuissima	=SGD042-07	0.4	0.1
Afrohybanthus aurantiacus	NC	0.2	0.1
Aristida contorta	=SGD119-02	0.3	0.1
Bonamia erecta	=SGD019-07	0.5	0.5
Corchorus lasiocarpus subsp. *lasiocarpus*	SGD017-03	0.3	1.5
Corymbia hamersleyana	NC	5	1
Eragrostis eriopoda	NC	0.3	0.1
Eremophila longifolia	NC	1.3	0.1
Eucalyptus gamophylla	NC	2.5	22
Eulalia aurea	NC	0.5	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.5	0.1
Euploca pachyphylla	=SGD124-11	0.2	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Goodenia microptera	=SGD103-08	0.3	0.1
Indigofera monophylla	NC	0.3	0.1
Jasminum didymum subsp. *lineare*	NC	0.8	0.1
Melhania oblongifolia	SGD017-05	0.2	0.1
Neurachne muelleri	NC	0.3	0.1
Pterocaulon sphacelatum	NC	0.1	0.1
Ptilotus astrolasius	=SGD103-12	0.3	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.7	0.1
Rhynchosia minima	NC	0.6	0.1
Senna artemisioides subsp. *helmsii*	NC	0.5	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Senna artemisioides subsp. *oligophylla*	NC	1.5	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	1.4	0.1
Tephrosia sp.	NC	0.4	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia ?basedowii	SGD017-01	0.5	20
Triodia ?basedowii	SGD017-02	0.5	15
Vincetoxicum lineare	=SGD019-06	0.9	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD018	18-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	690635	mE	
Northing	7517080	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	Weed invasion		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Eucalyptus gamophylla* very open mallee over *Acacia inaequilatera* tall open shrubland over *Corchorus lasiocarpus* subsp. *lasiocarpus* and *Indigofera monophylla* low open shrubland over *Triodia* ?*epactia*/*pungens* and *Triodia* ?*basedowii* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.4	0.1
Acacia dictyophleba	=SGD061-02	1.2	0.1
Acacia inaequilatera	NC	2.1	2.5
Afrohybanthus aurantiacus	NC	0.3	0.1
Aristida contorta	=SGD119-02	0.3	0.1
Arivela viscosa	NC	0.3	0.1
Bonamia erecta	=SGD019-07	0.4	0.5
Corchorus lasiocarpus subsp. *lasiocarpus*	=SGD017-03	0.3	3
Corymbia hamersleyana	NC	4	1.5
Crotalaria medicaginea var. *neglecta*	SGD018-03	0.3	0.1
Cucumis variabilis	NC	2.5	0.1
Eriachne aristidea	=SGD086-06	0.2	0.1
Eriachne mucronata	=SGD055-03	0.2	0.1
Eucalyptus gamophylla	NC	2.1	2.5
Eulalia aurea	NC	0.2	0.1
Euphorbia ?biconvexa	=SGD055-05	0.3	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.4	0.1
Euploca pachyphylla	=SGD124-11	0.3	0.5
Goodenia microptera	=SGD103-08	0.3	0.1
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	1.5	0.1
Hakea lorea subsp. *lorea*	=SGD117-02	2.3	0.5
Indigofera monophylla	NC	0.5	1
Jasminum didymum subsp. *lineare*	NC	0.6	0.1
Maytenus sp. Mt Windell (S. van Leeuwen 846)	SGD018-05	0.9	0.1
Melhania oblongifolia	=SGD017-05	0.3	0.1
Ptilotus astrolasius	=SGD103-12	0.3	0.1
Ptilotus calostachyus	NC	0.1	0.1
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	0.1
Rhynchosia minima	NC	0.3	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Senna artemisioides subsp. *oligophylla*	NC	0.5	0.1
**Setaria verticillata*	SGD018-04	0.2	0.1
Tephrosia ?rosea var. Fortescue Creeks (M.I.H Brooker 2186)	=SGD006-07	0.2	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.8	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia ?basedowii	SGD018-02	0.4	12
Triodia ?epactia/pungens	SGD018-01	0.5	20

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD019	18-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	690850	mE	
Northing	7517839	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	Road access tracks, Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia inaequilatera* scattered tall shrubs over *Grevillea wickhamii* ?subsp. scattered shrubs over *Triodia* ?*epactia* and *Triodia* ?*basedowii* very open hummock grassland over *Trigastrotheca molluginea* , *Corchorus* aff. *tectus* , and *Ptilotus astrolasius* open herbland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia inaequilatera	NC	2.7	1.5
Acacia sericophylla	SGD019-03	1.9	0.5
Acacia sericophylla	SGD019-05	0.8	0.1
Afrohybanthus aurantiacus	NC	0.4	0.1
Anthobolus leptomerioides	SGD019-04	1.8	0.1
Aristida ?holathera var. *holathera*	=SGD124-06	0.6	0.5
Aristida contorta	=SGD119-02	0.2	0.5
Arivela viscosa	NC	0.7	0.1
Bonamia erecta	SGD019-07	0.3	0.1
**Cenchrus ciliaris*	NC	0.4	0.1
Corchorus aff. tectus	=SGD103-05	0.2	3
Corymbia hamersleyana	NC	7	0.5
Eragrostis eriopoda	NC	0.4	0.1
Eucalyptus gamophylla	NC	1.8	0.5
Euploca pachyphylla	=SGD124-11	0.2	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.3	0.1
Goodenia microptera	=SGD103-08	0.2	0.1
Grevillea wickhamii ? subsp.	=SGD124-05	1.9	1
Hakea lorea subsp. *lorea*	=SGD117-02	2.1	0.5
Indigofera monophylla	NC	0.2	0.5
Jasminum didymum subsp. *lineare*	NC	2.1	0.1
Ptilotus astrolasius	=SGD103-12	0.3	4
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.5	0.1
Senna artemisioides subsp. *helmsii*	NC	0.3	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.5	0.5
Senna glutinosa subsp. ×*luerssenii*	NC	0.3	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD121-05	0.7	0.1
Sida sp.	SGD019-08	0.3	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Trichodesma zeylanicum var. *zeylanicum*	NC	0.6	0.1
Trigastrotheca molluginea	NC	0.1	3
Triodia ?basedowii	SGD019-02	0.4	1.5
Triodia epactia	SGD019-01	0.4	5
Vincetoxicum lineare	SGD019-06	0.6	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD020	19-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	693166	mE	
Northing	7515111	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Acacia bivenosa* scattered shrubs over *Triodia pungens* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	1.1	1
Arivela viscosa	NC	0.1	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	5	1.5
Goodenia sp.	NC	0.1	0.1
?Goodenia stobbsiana	=SGD060-04	0.1	0.1
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	1.4	0.1
Hibiscus coatesii	=SGD086-04	0.1	0.1
Ptilotus astrolasius	=SGD103-12	0.2	0.1
Ptilotus calostachyus	NC	0.7	0.1
Ptilotus exaltatus	NC	0.1	0.1
Senna artemisioides subsp. *helmsii*	NC	0.3	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.1	0.1
Senna glutinosa subsp. *pruinosa*	=SGD060-02	1.1	0.1
Solanum ?phlomoides	NC	0.3	0.1
Tribulus suberosus	NC	0.4	0.1
Triodia pungens	SGD020-01	0.4	45

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD021	19-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	692953	mE	
Northing	7514625	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	South		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Dark brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia spondylophylla*, *Acacia hilliana* low open shrubland over *Triodia wiseana* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	=SGD026-04	0.5	1
Acacia spondylophylla	=SGD036-01	0.6	5
Calytrix carinata	=SGD026-06	0.2	0.1
Corchorus ?lasiocarpus subsp. *lasiocarpus*	=SGD013-03	0.2	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	SGD021-03	3.1	1.5
Grevillea wickhamii ? subsp.	=SGD026-13	2.6	2.5
Hakea chordophylla	SGD021-02	2.2	0.5
Neurachne muelleri	NC	0.3	0.1
Petalostylis labicheoides	=SGDr004-01	1.2	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus sp.	=SGD028-03	0.2	0.1
Triodia wiseana	SGD021-01	0.3	42

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD022	19-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke		
Location (GDA) Zone 50K			
Easting	692090	mE	
Northing	7511856	mS	
Site Characteristics			
Landform	Hillslopes		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* and *Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Acacia hilliana* low scattered shrubs over *Triodia vanleeuwenii* and *Triodia pungens* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adoxa var. *adoxa*	SGD022-01	0.3	0.1
Acacia hilliana	=SGD001-01	0.6	1
Acacia inaequilatera	NC	3	0.5
Acacia monticola	NC	2.2	0.1
Acacia spondylophylla	NC	0.5	0.5
Corymbia hamersleyana	NC	5	1
Eriachne lanata	=SGD001-07	0.2	0.1
Eriachne mucronata	NC	0.3	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	6	0.5
Goodenia stobbsiana	NC	0.1	0.5
Grevillea wickhamii ? subsp.	=SGDr060-01	2.2	1
Hakea chordophylla	NC	1.9	0.5
Ptilotus calostachyus	NC	0.2	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.3	0.1
Triodia pungens	SGD022-02	0.6	1
Triodia vanleeuwenii	NC	0.3	28

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD023	19-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	693616	mE	
Northing	7512182	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Acacia spondylophylla* and *Acacia hilliana* low open shrubland over *Triodia wiseana* and *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	=SGD001-01	0.3	1
Acacia spondylophylla	NC	0.7	3
Calytrix carinata	SGD023-03	0.4	0.1
Corchorus sp.	SGD023-01	0.2	0.1
Corchorus sp.	SGD023-02	0.3	0.1
Corymbia hamersleyana	NC	7	2
Eriachne lanata	=SGD001-07	0.2	0.1
Eriachne mucronata	NC	0.2	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	8.5	7
Grevillea wickhamii ? subsp.	=SGDr060-01	1.9	0.5
Indigofera monophylla	NC	0.2	0.1
Neurachne muelleri	NC	0.2	0.1
Ptilotus calostachyus	NC	0.2	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus sp.	NC	0.1	0.1
Scaevola browniana subsp. *browniana*	=SGD001-05	0.2	0.1
Senna glaucifolia	=SGD007-01	0.5	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.2	0.1
Solanum sp.	NC	0.2	0.1
Triodia vanleeuwenii	NC	0.3	12
Triodia wiseana	NC	0.5	15

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD024	19-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke		
Location (GDA) Zone 50K			
Easting	692689	mE	
Northing	7511414	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia spondylophylla* low open shrubland over *Triodia wiseana* open hummock grassland

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	=SGD001-01	0.4	0.1
Acacia monticola	NC	1.9	0.1
Acacia pruinocarpa	NC	1.8	0.5
Acacia spondylophylla	NC	0.8	5
Aristida holathera var. *holathera*	=SGD044-03	0.1	0.1
Clerodendrum sp.	NC	0.1	0.1
Corymbia hamersleyana	NC	6.5	1.5
Enneapogon lindleyanus	SGD024-01	0.2	0.1
Eriachne lanata	=SGD001-07	0.2	0.1
Eriachne mucronata	NC	0.3	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	8	3
Grevillea wickhamii ? subsp.	=SGDr060-01	3.3	3
Jasminum didymum subsp. *lineare*	NC	0.7	0.1
Neurachne muelleri	NC	0.2	0.1
Ptilotus exaltatus	NC	0.1	0.1
Santalum lanceolatum	SGD024-02	1.3	0.1
Sida sp.	NC	0.1	0.1
Triodia wiseana	NC	0.2	25

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD025	12-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	699669	mE	
Northing	7511521	mS	
Site Characteristics			
Landform	Floodplain		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia pyrifolia* var. *pyrifolia* scattered shrubs over *Senna artemisioides* subsp. *oligophylla* low scattered shrubs over *Triodia pungens* open hummock grassland over **Cenchrus ciliaris* and *Aristida contorta* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia inaequilatera	NC	2.1	0.1
Acacia pyrifolia var. *pyrifolia*	NC	1.7	1
Acacia tumida var. *pilbarensis*	NC	2.5	0.1
Afrohybanthus aurantiacus	NC	0.2	0.1
Aristida contorta	SGD025-02	0.1	1.5
Aristida inaequiglumis	SGD025-06	0.4	0.1
Atalaya hemiglauca	NC	1.9	0.5
**Cenchrus ciliaris*	NC	0.2	3
Corchorus lasiocarpus ? subsp. *lasiocarpus*	=SGD027-03	0.3	0.1
Corymbia hamersleyana	NC	6.5	1.5
Duperreya commixta	NC	1	0.1
Enneapogon lindleyanus	SGD025-03	0.2	0.1
Enneapogon polyphyllus	NC	0.2	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.2	0.1
Euphorbia vaccaria ? var. *vaccaria*	SGD025-05	0.1	0.1
Euploca cunninghamii	SGD025-04	0.2	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1
Gossypium robinsonii	NC	2.2	0.1
Grevillea pyramidalis subsp. *leucadendron*	NC	2.1	0.1
Grevillea wickhamii ? subsp.	SGD025-01	3.5	7
Indigofera monophylla	NC	0.3	0.1
Jasminum didymum subsp. *lineare*	NC	1	0.1
Neurachne muelleri	NC	0.2	0.1
Petalostylis labicheoides	NC	2.6	0.5
Ptilotus astrolasius	NC	0.3	0.1
Ptilotus calostachyus	NC	0.3	0.1
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.7	0.1
Santalum lanceolatum	NC	2.1	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Senna artemisioides subsp. *oligophylla*	=SGD029-06	0.7	1
Senna glutinosa subsp. *glutinosa*	NC	0.8	0.1
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)	=SGD029-02	0.3	0.1
Trigastrotheca molluginea	NC	0.05	0.1
Triodia pungens	=SGD029-01	0.6	20

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD026	11-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	694137	mE	
Northing	7510706	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	South-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus kingsmillii*, *Eucalyptus leucophloia* subsp. *leucophloia*, and *Eucalyptus gamophylla* low woodland over *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia hilliana* low open shrubland over *Triodia wiseana* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adoxa var. *adoxa*	SGD026-02	0.3	0.5
Acacia hamersleyensis	SGD026-14	0.6	0.1
Acacia hilliana	SGD026-04	0.3	2.5
Calytrix carinata	SGD026-06	0.2	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.1	0.1
Eucalyptus gamophylla	SGD026-09	1.9	2
Eucalyptus kingsmillii	SGD026-05	1.2	7
Eucalyptus leucophloia subsp. *leucophloia*	SGD026-01	2.2	4
Gompholobium oreophilum	SGD026-08	0.4	0.1
Grevillea wickhamii ? subsp.	SGD026-13	2.2	2
Hakea chordophylla	SGD026-10	1.9	0.1
Petalostylis labicheoides	SGD026-03	1.4	0.5
Santalum lanceolatum	SGD026-12	1.8	0.5
Scaevola browniana subsp. *browniana*	SGD026-07	0.2	0.1
Triodia wiseana	SGD026-11	0.4	36

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD027	11-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	698573	mE	
Northing	7511442	mS	
Site Characteristics			
Landform	Incline - Footslope		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* low open woodland over *Eucalyptus gamophylla* low open mallee over *Triodia pungens* and *Triodia vanleeuwenii* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	1.4	0.1
Acacia inaequilatera	NC	4	
Acacia spondylophylla	NC	0.5	0.1
Afrohybanthus aurantiacus	NC	0.1	0.1
Aristida holathera var. *holathera*	SGD027-05	0.2	0.1
Corchorus lasiocarpus ? subsp. *lasiocarpus*	SGD027-03	0.2	0.1
Corymbia hamersleyana	NC	9	3
Dodonaea petiolaris	NC	1.4	0.1
Duperreya commixta	NC	1.5	0.1
Eucalyptus gamophylla	NC	4	3
Eucalyptus leucophloia subsp. *leucophloia*	NC	5.5	0.1
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.2	0.1
Euploca pachyphylla	SGD027-04	0.2	0.1
Grevillea wickhamii ? subsp.	NC	0.9	0.1
Hakea chordophylla	NC	3	0.5
Hakea lorea subsp. *lorea*	NC	1.9	0.1
Petalostylis labicheoides	NC	1.6	0.1
Ptilotus calostachyus	NC	0.6	0.1
Ptilotus exaltatus	NC	0.1	0.1
Scaevola parvifolia subsp. *pilbarae*	SGD027-02	0.1	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.3	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	1.7	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.5	0.1
Trigastrotheca molluginea	NC	0.3	0.1
Triodia ?basedowii	SGD027-06	0.2	0.1
Triodia pungens	SGD027-01	0.5	55
Triodia vanleeuwenii	NC	0.3	2

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD028	11-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	694998	mE	
Northing	7511703	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Dead branches, Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Rare		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over and *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Acacia spondylophylla* , *Acacia hilliana* , and *Acacia maitlandii* low open shrubland over *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	=SGD026-04	0.3	1
Acacia maitlandii	=OppJCOR-02-01	0.9	2.5
Acacia spondylophylla	NC	0.3	1
Aristida ?holathera var. *holathera*	NC	0.4	0.1
Calytrix carinata	=SGD026-06	0.3	0.1
Dampiera candicans	SGD028-04	0.4	0.1
Dolichocarpa sp.	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD026-01	3.8	1
Gompholobium oreophilum	=SGD026-08	0.2	0.1
?Goodenia stobbsiana	SGD028-02	0.2	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	2.1	1
Hakea chordophylla	=SGD026-10	0.4	0.1
Indigofera monophylla	NC	0.3	0.1
Neurachne muelleri	NC	0.2	0.1
Ptilotus sp.	SGD028-03	0.5	0.1
Scaevola browniana subsp. *browniana*	=SGD026-07	0.1	0.1
Triodia vanleeuwenii	SGD028-01	0.3	21

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD029	11-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	699251	mE	
Northing	7511069	mS	
Site Characteristics			
Landform	Floodplain		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* and *Eucalyptus gamophylla* low open woodland over *Senna artemisioides* subsp. *oligophylla* low scattered shrubs over *Triodia pungens* open hummock grassland over **Cenchrus ciliaris* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia inaequilatera	NC	3	0.5
Acacia pyrifolia var. *pyrifolia*	NC	2.3	0.5
Acacia sericophylla	SGD029-05	2.7	0.1
Afrohybanthus aurantiacus	NC	0.2	0.1
Aristida holathera var. *holathera*	=SGD027-05	0.2	0.1
Atalaya hemiglauca	NC	1.2	0.1
**Cenchrus ciliaris*	NC	0.5	7
Chrysopogon fallax	NC	0.3	0.1
Clerodendrum sp.	NC	1.2	0.1
Corchorus sp.	NC	0.2	0.1
Corymbia hamersleyana	NC	9	4
Duperreya commixta	NC	0.8	0.1
Enneapogon polyphyllus	NC	0.2	0.1
Eragrostis eriopoda	NC	0.2	0.1
Eriachne aristidea	SGD029-03	0.1	0.1
Eucalyptus gamophylla	NC	4.5	0.5
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.3	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Hakea lorea subsp. *lorea*	NC	1.9	0.1
Jasminum didymum subsp. *lineare*	NC	1	0.1
Neurachne muelleri	NC	0.2	0.1
Petalostylis labicheoides	NC	1.9	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	SGD029-07	0.3	0.1
Santalum lanceolatum	NC	1.9	0.1
Senna artemisioides subsp. *helmsii*	NC	0.9	0.1
Senna artemisioides subsp. *oligophylla*	SGD029-06	0.8	1.5
Sida ? sp. L (A.M. Ashby 4202)	SGD029-04	0.1	0.1
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)	SGD029-02	0.3	0.1
Triodia pungens	SGD029-01	0.6	15

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD030	11-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	696025	mE	
Northing	7510761	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Low (1-20º)		
Aspect	South-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Orange		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* , *Eucalyptus gamophylla* low woodland over *Acacia spondylophylla* , and *Acacia hilliana* open shrubland over *Triodia wiseana* and *Triodia ?vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	=SGD026-04	0.5	1
Acacia spondylophylla	NC	0.8	3
Corchorus crozophorifolius	NC	0.3	0.1
Eriachne lanata	=SGD030-01	0.3	0.1
Eucalyptus gamophylla	=SGD026-09	3.6	5
Eucalyptus leucophloia subsp. *leucophloia*	=SGD026-01	4.2	5
Gompholobium oreophilum	=SGD026-08	0.2	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	0.5	0.5
Hakea chordophylla	=SGD026-10	2.1	0.5
Indigofera monophylla	NC	0.2	0.1
Mirbelia viminalis	SGD030-02	0.9	0.5
Petalostylis labicheoides	=SGD026-03	1.6	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus sp.	=SGD028-03	0.4	0.1
Scaevola browniana subsp. *browniana*	=SGD026-07	0.6	0.1
Triodia ?vanleeuwenii	=SGD030-01	0.3	12
Triodia wiseana	=SGD026-11	0.4	17

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD031	11-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	697347	mE	
Northing	7509999	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Low (1-20º)		
Aspect	South-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia pyrifolia* var. *pyrifolia* and *Hakea chordophylla* tall open shrubland over *Acacia spondylophylla* low scattered shrubs over *Triodia vanleeuwenii* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adoxa var. *adoxa*	=SGD026-02	0.2	0.1
Acacia maitlandii	=OppJCOR-02-01	1.9	0.1
Acacia pyrifolia var. *pyrifolia*	NC	2.6	1.5
Acacia spondylophylla	NC	0.5	1
Aristida ?holathera var. *holathera*	NC	0.4	0.1
Dampiera candicans	=SGD028-04	0.3	0.1
Eriachne lanata	=SGD030-01	0.3	0.1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD026-01	4.1	3
Grevillea wickhamii ? subsp.	=SGD026-13	0.9	0.5
Hakea chordophylla	=SGD026-10	2.4	1
Neurachne muelleri	NC	0.4	0.1
Psydrax latifolia	NC	0.8	0.5
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus sp.	NC	0.3	0.1
Ptilotus sp.	=SGD028-03	0.5	0.1
Senna ?glaucifolia	NC	0.6	0.1
Senna glutinosa subsp. *glutinosa*	NC	0.8	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	SGD031-03	0.3	0.1
Sida ? sp. Pilbara (A.A. Mitchell PRP 1543)	SGD031-04	0.4	0.1
Solanum sp.	NC	0.2	0.1
Stackhousia sp.	SGD031-05	0.2	0.5
Tribulus suberosus	NC	0.6	0.1
Triodia vanleeuwenii	SGD031-02	0.3	24
Triodia vanleeuwenii	SGD031-01	0.5	5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD032	11-03-25	
Dimensions	10 m x 250 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	697926	mE	
Northing	7510786	mS	
Site Characteristics			
Landform	Gorge		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Large rocks (21-60 cm)		
Abundance	Common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Corymbia ferriticola* and *Ficus brachypoda* low open woodland over *Acacia tumida* var. pilbarensis and *Petalostylis labicheoides* tall shrubland over *Duperreya commixta* very open vineland over *Triodia pungens* scattered hummock grasses over *Neurachne muelleri* and *Aristida burbidgeae* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.2	0.1
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	NC	2.2	0.1
Acacia hamersleyensis	SGD032-14	2.5	0.1
Acacia maitlandii	NC	0.3	0.1
Acacia monticola	NC	0.9	0.1
Acacia pruinocarpa	NC	0.8	0.1
Acacia tumida var. *pilbarensis*	NC	7.5	11
Afrohybanthus aurantiacus	NC	0.4	0.1
Aristida burbidgeae	SGD032-05	0.3	2
Aristida inaequiglumis	SGD032-26	0.5	0.1
Arivela viscosa	NC	0.3	0.1
Atalaya hemiglauca	NC	1.1	0.1
Cajanus ?cinereus	SGD032-11	0.8	0.1
Capparis spinosa subsp. *nummularia*	NC	0.8	0.1
**Cenchrus ciliaris*	NC	0.8	0.1
Clerodendrum ?tomentosum var. *lanceolatum*	SGD032-06	1.2	0.1
Corchorus lasiocarpus ? subsp. *lasiocarpus*	SGD032-22	0.8	0.1
Corymbia ferriticola	NC	8	6
Crotalaria medicaginea var. *neglecta*	SGD032-21	0.8	0.1
Cucumis variabilis	NC	0.5	0.1
Cymbopogon ambiguus	NC	0.8	0.5
Cyperus cunninghamii subsp. *cunninghamii*	SGD032-12	0.3	0.1
Dodonaea pachyneura	SGD032-02	1.6	0.1
Dolichocarpa crouchiana	SGD032-20	0.1	0.1
Duperreya commixta	NC	2.5	5
Enneapogon lindleyanus	SGD032-23	0.2	0.1
Enneapogon polyphyllus	SGD032-09	0.3	0.1
Eriachne mucronata	NC	0.3	1
Euphorbia biconvexa	NC	0.2	0.1
Euphorbia careyi	SGD032-16	0.1	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Ficus brachypoda	SGD032-07	9.5	1.5
Gompholobium oreophilum	SGD032-25	0.3	0.1
Gomphrena cunninghamii	NC	0.1	0.1
Goodenia stobbsiana	NC	0.2	0.1
Gossypium robinsonii	NC	2.2	0.5
Grevillea wickhamii ? subsp.	NC	1.9	0.1
Hibiscus sp. Mt Robinson (G. Byrne 3537)	NC	0.1	0.1
Indigofera monophylla	NC	0.2	0.1
Jasminum didymum subsp. *lineare*	NC	3.5	0.1
Malvaceae sp.	NC	0.2	0.1
Neurachne muelleri	NC	0.3	7
Notoleptopus decaisnei	NC	0.2	0.1
Paspalidium clementii	SGD032-03	0.1	0.1
Petalostylis labicheoides	NC	2.1	1.5
Polycarpaea longiflora	SGD032-04	0.1	0.1
Psydrax latifolia	NC	1.2	0.1
Ptilotus astrolasius	NC	0.5	0.1
Ptilotus calostachyus	NC	0.7	0.1
Ptilotus sp.	NC	0.05	0.1
Rhynchosia bungarensis	SGD032-10	0.4	0.1
Santalum lanceolatum	NC	3.2	0.5
Senna artemisioides subsp. *oligophylla*	SGD032-17	1	0.1
Senna notabilis	NC	0.6	0.1
Senna venusta	NC	1.9	0.1
Sida sp. Articulation below (A.A. Mitchell PRP 1605)	SGD032-18	0.9	0.1
Solanum cleistogamum	SGD032-08	0.2	0.1
Solanum phlomoides	SGD032-19	0.2	0.1
Stylobasium spathulatum	NC	0.5	0.1
Tephrosia arenicola	SGD032-24	0.9	0.1
Tephrosia virens	SGD032-15	1.1	0.1
Themeda triandra	SGD032-13	0.5	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.6	0.1
Triodia pungens	SGD032-01	0.8	8

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD033	19-03-25	
Dimensions	25 m x 100 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	698051	mE	
Northing	7511441	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Corymbia hamersleyana* low woodland over *Acacia tumida* var. pilbarensis and *Petalostylis labicheoides* tall shrubland over *Duperreya commixta* very open vineland over *Stylobasium spathulatum* scattered shrubs over *Triodia pungens* open hummock grassland over *Themeda* ?*triandra* and *Eriachne mucronata* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.2	0.1
Acacia maitlandii	NC	2.2	0.1
Acacia monticola	NC	2.1	0.1
Acacia pyrifolia var. *pyrifolia*	NC	1.3	0.1
Acacia spondylophylla	NC	1.2	0.1
Acacia tumida var. *pilbarensis*	NC	5.5	20
Afrohybanthus aurantiacus	NC	0.5	0.1
Aristida holathera var. *holathera*	SGD033-03	0.3	0.1
Aristida inaequiglumis	SGD033-08	0.5	0.1
Aristida inaequiglumis	=SGD025-06	0.3	0.1
Corchorus lasiocarpus ? subsp. *lasiocarpus*	=SGD027-03	0.2	0.1
Corchorus lasiocarpus ? subsp. *lasiocarpus*	=SGD032-22	0.2	0.1
Corchorus lasiocarpus ? subsp. *lasiocarpus*	SGD033-05	0.3	0.1
Corymbia hamersleyana	NC	9.5	12
Cucumis variabilis	NC	0.8	0.1
Cymbopogon ambiguus	NC	0.4	0.1
Dicrastylis cordifolia	=SGD044-06	0.1	0.1
Duperreya commixta	NC	3	4
Eriachne mucronata	SGD033-04	0.3	1
Eulalia aurea	NC	0.5	0.1
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.5	0.1
Euploca glabella	=SGD095-06	0.1	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1
Gompholobium oreophilum	=SGD001-02	0.2	0.1
Gossypium robinsonii	NC	3	0.5
Grevillea wickhamii ? subsp.	=SGD047-01	3	0.5
Hibiscus burtonii	SGD033-06	0.1	0.1
Hibiscus sp. Mt Robinson (G. Byrne 3537)	=DRopp08-02	0.1	0.1
Hibiscus sturtii var. *campylochlamys*	SGD033-09	0.3	0.1
Indigofera monophylla	NC	0.2	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Malvaceae sp.	NC	0.1	0.1
Nellica maderaspatensis	NC	0.1	0.1
Neurachne muelleri	NC	0.2	0.5
Paspalidium clementii	=SGD032-03	0.1	0.1
Petalostylis labicheoides	NC	2.2	1
Ptilotus astrolasius	NC	0.3	0.1
Ptilotus calostachyus	NC	0.3	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus fusiformis	=SGD081-02	0.3	0.1
Santalum lanceolatum	NC	1.9	0.5
Senna glutinosa subsp. *glutinosa*	NC	1	0.1
Senna notabilis	NC	0.1	0.1
Sida ? sp. spiciform panicles (E. Leyland s.n. 14/8/90)	SGD033-07	1.9	0.1
Solanum cleistogamum	=SGD032-08	0.1	0.1
Solanum phlomoides	=SGD047-07	0.2	0.1
Stylobasium spathulatum	NC	1.7	1
Tephrosia densa	NC	0.4	0.1
Themeda ?triandra	SGD033-02	0.3	1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.1	0.1
Triodia pungens	SGD033-01	0.6	15
Waltheria indica	NC	0.3	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD034	12-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	699662	mE	
Northing	7511298	mS	
Site Characteristics			
Landform	Drainage - Flowline		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Poor		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* and *Eucalyptus* ?*xerothermica* open woodland over *Eucalyptus gamophylla* scattered low mallee over *Grevillea wickhamii* ?subsp. and *Atalaya hemiglauca* tall open shrubland over *Acacia pyrifolia* var. *pyrifolia* and *Eremophila longifolia* open shrubland over *Scaevola spinescens* low scattered shrubs over **Cenchrus ciliaris* open tussock grassland over *Triodia pungens* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.2	0.1
Acacia dictyophleba	NC	1.9	0.5
Acacia inaequilatera	NC	4	0.5
Acacia pyrifolia var. *pyrifolia*	NC	1.5	1
Acacia tumida var. *pilbarensis*	NC	3	0.5
Afrohybanthus aurantiacus	NC	0.2	0.1
Aristida contorta	SGD025-02	0.2	0.1
Aristida inaequiglumis	=SGD025-06	0.3	0.1
Atalaya hemiglauca	NC	3.2	3
Boerhavia sp.	NC	0.05	0.1
Bonamia erecta	SGD034-05	0.2	0.1
**Cenchrus ciliaris*	NC	0.4	25
Chrysopogon fallax	NC	0.3	0.1
Clerodendrum floribundum var. *angustifolium*	SGD034-01	1.2	0.1
Corchorus lasiocarpus ? subsp. *lasiocarpus*	=SGD027-03	0.1	0.1
Corymbia hamersleyana	NC	12	3
Cymbopogon ambiguus	NC	0.4	0.1
Duperreya commixta	NC	1.5	0.1
Enneapogon lindleyanus	=SGD025-03	0.2	0.1
Eragrostis eriopoda	SGD034-04	0.2	0.1
Eremophila longifolia	NC	1.7	1.5
Eucalyptus ?xerothermica	SGD034-03	12	3
Eucalyptus gamophylla	NC	4	1.5
Eulalia aurea	NC	0.3	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1
Gossypium australe	NC	0.9	0.1
Gossypium robinsonii	NC	2.5	0.1
Grevillea wickhamii ? subsp.	=SGD025-03	4	5
Hakea lorea subsp. *lorea*	NC	3.8	0.1
Indigofera monophylla	NC	0.2	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Jasminum didymum subsp. *lineare*	NC	1.8	0.1
Malvaceae sp.	NC	0.1	0.1
Neurachne muelleri	NC	0.2	0.1
Petalostylis labicheoides	NC	3.3	0.5
Ptilotus calostachyus	NC	0.4	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Santalum lanceolatum	NC	1.7	0.1
Scaevola spinescens	NC	0.7	1
Senna artemisioides subsp. *helmsii*	NC	1.1	0.1
Senna artemisioides subsp. *oligophylla*	=SGD032-17	0.8	0.5
Sida ? sp. L (A.M. Ashby 4202)	SGD034-06	0.1	0.1
Stylobasium spathulatum	NC	1.4	0.1
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)	=SGD029-02	0.7	0.1
Themeda triandra	NC	0.7	0.1
Tribulus sp.	NC	0.05	0.1
Triodia pungens	=SGD029-01	0.6	20

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD035	12-03-25	
Dimensions	25 m x 100 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	701285	mE	
Northing	7509957	mS	
Site Characteristics			
Landform	Drainage - Flowline		
Slope	Low (1-20º)		
Aspect	South-west		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* open woodland over *Acacia tumida* var. *pilbarensis* , *Grevillea wickhamii* ?subsp. tall open scrub over *Santalum lanceolatum* scattered shrubs over *Tephrosia rosea* var. Fortescue Creeks (M.I.H Brooker 2186) scattered low shrubs over *Triodia pungens* open hummock grassland over **Cenchrus ciliaris* and *Cymbopogon ambiguus* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.1	0.1
Acacia pyrifolia var. *pyrifolia*	NC	1.4	0.5
Acacia tumida var. *pilbarensis*	NC	3.2	33
Afrohybanthus aurantiacus	NC	0.5	0.1
Aristida holathera var. *holathera*	SGD035-05	0.3	0.1
Cajanus ?cinereus	SGD035-07	1.5	0.1
**Cenchrus ciliaris*	NC	0.5	7
Clerodendrum sp.	NC	1	0.1
Corchorus ?lasiocarpus subsp. *lasiocarpus*	SGD035-08	0.7	0.1
Corchorus lasiocarpus ? subsp. *lasiocarpus*	=SGD027-03	0.3	0.1
Corymbia hamersleyana	NC	13	5
Cucumis variabilis	NC	0.5	0.1
Cymbopogon ambiguus	NC	0.4	2
Dipteracanthus australasicus subsp. *australasicus*	NC	0.1	0.1
Duperreya commixta	NC	3	0.5
Enneapogon lindleyanus	=SGD025-03	0.3	0.1
Enneapogon polyphyllus	SGD035-03	0.2	0.1
Eriachne mucronata	SGD035-08	0.1	0.1
Eulalia aurea	NC	0.2	0.1
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.5	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1
Gossypium robinsonii	NC	3.8	0.1
Grevillea wickhamii ? subsp.	=SGD025-01	2.1	4
Indigofera monophylla	NC	0.4	0.1
Jasminum didymum subsp. *lineare*	NC	0.4	0.1
Neurachne muelleri	NC	0.2	0.1
Paspalidium clementii	NC	0.1	0.1
Petalostylis labicheoides	NC	1.9	0.1
Polycarpaea sp.	NC	0.1	0.1
Ptilotus calostachyus	NC	0.4	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Ptilotus sp.	NC	0.1	0.1
Rhynchosia minima	NC	0.5	0.1
Salsola australis	NC	0.5	0.1
Santalum lanceolatum	SGD035-02	1.4	1
Scaevola browniana subsp. *browniana*	SGD035-09	0.3	0.1
Scaevola spinescens	NC	0.5	0.1
Senna artemisioides subsp. *helmsii*	NC	1.6	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.1	0.1
Sida ?fibulifera	SGD035-05	0.2	0.1
Sida sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD032-18	0.7	0.1
Solanum cleistogamum	=SGD032-08	0.1	0.1
Solanum phlomoides	SGD035-07	1.5	0.1
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)	=SGD029-02	0.3	1
Themeda triandra	NC	0.3	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.5	0.1
Triodia pungens	SGD035-01	0.6	28
Waltheria indica	NC	0.2	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD036	12-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	698566	mE	
Northing	7509287	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Low (1-20º)		
Aspect	South-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus gamophylla*, *Eucalyptus leucophloia* subsp. *leucophloia*, and *Eucalyptus kingsmillii* low open woodland over *Acacia spondylophylla* and *Mirbelia viminalis* low open shrubland over *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hamersleyensis	SGD036-08	0.9	0.1
Acacia sp. (aneura complex)	NC	0.7	0.1
Acacia spondylophylla	SGD036-01	0.3	4
Amphipogon ?sericeus	SGD036-06	0.3	0.1
Aristida ?holathera var. *holathera*	NC	0.2	0.1
Dampiera candicans	=SGD028-04	0.2	0.1
Dolichocarpa crouchiana	SGD036-03	0.1	0.1
Eriachne mucronata	SGD036-07	0.2	0.1
Eucalyptus gamophylla	=SGD026-09	2.2	3
Eucalyptus kingsmillii	=SGD026-05	1.1	1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD026-01	3.2	2.5
Euploca pachyphylla	SGD036-04	0.2	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	0.6	0.1
Hakea chordophylla	=SGD026-10	2.4	0.5
Mirbelia viminalis	SGD036-05	0.4	3
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus sp.	NC	0.2	0.1
Ptilotus sp.	=SGD028-03	0.5	0.1
Scaevola browniana subsp. *browniana*	=SGD026-07	0.2	0.1
Solanum ?phlomoides	NC	0.3	0.1
Triodia wiseana	SGD036-02	0.4	28

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD037	12-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	699364	mE	
Northing	7508665	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Corymbia ?hamersleyana* and *Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia maitlandii* low open shrubland over *Triodia vanleeuwenii*, *Triodia brizoides*, and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	SGD037-07	0.4	0.1
Acacia hamersleyensis	=SGD036-08	0.5	0.1
Acacia maitlandii	SGD037-02	0.6	1
Acacia pruinocarpa	NC	0.4	0.1
Acacia sp.	NC	0.2	0.1
Acacia sp. (aneura complex)	NC	0.6	0.1
Acacia trudgeniana	SGD037-03	0.9	0.1
Bonamia erecta	=SGD031-04	0.2	0.1
Calytrix carinata	=SGD026-06	0.4	0.1
Corymbia ?hamersleyana	SGD037-06	5.8	2
Duperreya commixta	NC	0.4	0.1
Eriachne lanata	=SGD030-01	0.2	0.1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD026-01	4.8	3
Grevillea wickhamii ? subsp.	=SGD026-13	0.7	0.5
Hakea chordophylla	=SGD026-10	2.4	0.5
?Leichhardtia australis	NC	0.5	0.1
Ptilotus exaltatus	NC	0.1	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.4	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.1	0.5
Sida sp. Excedentifolia (J.L. Egan 1925)	SGD037-04	0.1	0.1
Tephrosia arenicola	SGD037-05	0.5	0.1
Triodia brizoides	SGD037-07	0.4	5.5
Triodia vanleeuwenii	SGD037-01	0.2	22
Triodia wiseana	=SGD036-02	0.4	2

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD040	13-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	701850	mE	
Northing	7507662	mS	
Site Characteristics			
Landform	Incline - Lower Slope		
Slope	Low (1-20º)		
Aspect	West		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar, Dead branches		
Water Presence	No		
Soils			
Soil Type	Silty Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Grevillea wickhamii* ?subsp. and *Acacia inaequilatera* tall open shrubland over *Acacia arida* and *Tephrosia arenicola* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* hummock grassland over *Eriachne lanata* scattered tussock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	SGD040-01	0.5	5
Acacia inaequilatera	NC	2.5	1.5
Acacia spondylophylla	=SGD041-05	0.5	0.1
Aristida contorta	=SGD119-02	0.3	0.1
Bonamia erecta	=SGDr020-03	0.2	0.1
Corchorus lasiocarpus subsp. *lasiocarpus*	=SGD042-04	0.7	0.5
Corymbia hamersleyana	NC	4	1.5
Cucumis variabilis	NC	1.1	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Eriachne lanata	=SGD042-05	0.4	1.5
Eriachne mucronata	NC	0.3	0.1
Fimbristylis simulans	SGD040-03	0.1	0.1
Goodenia cusackiana	SGD040-02	0.2	0.1
Grevillea wickhamii ? subsp.	=SGD124-05	2.2	3.5
Neurachne muelleri	NC	0.4	0.1
Petalostylis labicheoides	=SGD043-06	1.8	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus fusiformis	NC	0.3	0.1
Scaevola browniana subsp. *browniana*	SGD040-04	0.4	0.1
Tephrosia arenicola	=SGD041-10	0.8	1
Triodia vanleeuwenii	SGD040-06	0.3	28
Triodia wiseana	SGD040-05	0.3	4

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD041	13-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	702419	mE	
Northing	7506812	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Silt Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Corymbia hamersleyana* and *Corymbia ?deserticola* subsp. *deserticola* low open woodland over *Eucalyptus gamophylla* and *Eucalyptus kingsmillii* low mallee over *Acacia adoxa* var. *adoxa* and *Calytrix carinata* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adoxa var. *adoxa*	SGD041-03	0.2	4
Acacia pruinocarpa	NC	1.5	0.1
Acacia spondylophylla	SGD041-05	0.4	0.1
Acacia tenuissima	=SGD042-07	0.7	0.1
Amphipogon ?sericeus	SGD041-09	0.1	0.1
Calytrix carinata	SGD041-02	0.4	1
Corymbia ?deserticola subsp. *deserticola*	SGD042-06	2.5	2
Corymbia hamersleyana	NC	3	3
Eucalyptus gamophylla	NC	2.5	5
Eucalyptus kingsmillii	NC	1.2	5
Grevillea wickhamii ? subsp.	=SGD124-05	1.9	0.5
Hakea chordophylla	SGD041-06	3	0.5
Mirbelia viminalis	SGD041-08	0.5	0.5
Neurachne muelleri	NC	0.2	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.1	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.3	0.1
Tephrosia arenicola	SGD041-10	0.3	0.1
Triodia vanleeuwenii	SGD041-01	0.2	25
Triodia wiseana	SGD041-07	0.4	1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD042	13-03-25	
Dimensions	50 m x 50 m		
Described by	Scott Pansini, Andrew Greenley		
Location (GDA) Zone 50K			
Easting	701535	mE	
Northing	7506882	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	West		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Silt Loam		
Soil Colour	Orange		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Large rocks (21-60 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Corymbia hamersleyana* and *Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Grevillea wickhamii* ?subsp. open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia inaequilatera	NC	1.6	0.1
Acacia maitlandii	NC	1.3	0.1
Acacia tenuissima	SGD042-07	0.4	0.1
Corchorus lasiocarpus subsp. *lasiocarpus*	NC	0.4	0.1
Corymbia ?deserticola subsp. *deserticola*	SGD042-06	3.5	0.5
Corymbia hamersleyana	NC	3.5	3
Cymbopogon ambiguus	NC	0.3	0.1
Dampiera candicans	NC	0.3	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Eriachne lanata	SGD042-05	0.3	0.1
Eriachne mucronata	NC	0.3	0.5
Eucalyptus leucophloia subsp. *leucophloia*	SGD042-03	4	2.5
Grevillea wickhamii ? subsp.	=SGD124-05	1.9	2.5
Hakea lorea subsp. *lorea*	NC	2.1	0.1
Jasminum didymum subsp. *lineare*	NC	1.5	0.1
Petalostylis labicheoides	SGD043-06	0.9	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.1	0.1
Triodia vanleeuwenii	SGD042-01	0.2	35
Triodia wiseana	SGD042-02	0.4	10

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD043	13-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	703457	mE	
Northing	7510018	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Poor		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches, Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Grevillea wickhamii* subsp. *hispidula*, *Maytenus* sp. Mt Windell (S. van Leeuwen 846), *Gossypium robinsonii*, and *Acacia tumida* ?var. tall shrubland over *Senna artemisioides* subsp. *oligophylla*, *Acacia pyrifolia* var.? *pyrifolia*, and *Atalaya hemiglauca* open shrubland over **Cenchrus ciliaris* tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	1.4	0.1
Acacia pyrifolia ? var. *pyrifolia*	SGD043-02	1.1	1
Acacia tumida ? var.	=SGDr020-01	3	1
Afrohybanthus aurantiacus	NC	0.3	0.1
Aristida contorta	=SGD119-02	0.3	0.1
Arivela viscosa	NC	0.5	0.1
Atalaya hemiglauca	SGD043-04	1.2	1
Boerhavia coccinea	NC	0.1	0.1
**Cenchrus ciliaris*	NC	0.4	40
Clerodendrum floribundum var. *angustifolium*	SGD043-07	1.8	0.5
Corchorus crozophorifolius	NC	0.5	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Duperreya commixta	NC	0.8	0.1
Enneapogon caerulescens	NC	0.4	0.5
Enneapogon polyphyllus	NC	0.3	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.4	0.1
Gomphrena cunninghamii	NC	0.1	0.1
Gossypium robinsonii	NC	3.5	2.5
Grevillea wickhamii subsp. *hispidula*	SGD043-01	3.5	5
Indet. sp.	SGD043-05	0.7	0.1
Indigofera monophylla	NC	0.5	0.1
Jasminum didymum subsp. *lineare*	NC	0.4	0.1
Maytenus sp. Mt Windell (S. van Leeuwen 846)	=SGDr020-04	2.2	4
Petalostylis labicheoides	SGD043-06	2	0.1
Polycarpaea sp.	NC	0.1	0.1
Ptilotus calostachyus	NC	0.4	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.7	0.5
Santalum lanceolatum	NC	1.3	0.5
Senna artemisioides subsp. *oligophylla*	NC	1.1	2.5

Taxon	Collection Code	Height (m)	Cover (%)
Stylobasium spathulatum	NC	0.9	0.1
Tephrosia sp.	NC	0.4	0.1
Themeda triandra	NC	0.5	0.1
Triodia epactia	SGD043-03	0.4	0.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD044	13-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	704960	mE	
Northing	7511136	mS	
Site Characteristics			
Landform	Plain - Undulating		
Slope	Flat (0º)		
Aspect	West		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Eucalyptus gamophylla* very open mallee over *Triodia wiseana*, *Triodia vanleeuwenii*, and *Triodia epactia* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia inaequilatera	NC	4	0.5
Acacia tumida var. *pilbarensis*	NC	3.8	0.5
Afrohybanthus aurantiacus	NC	0.5	0.1
Aristida holathera var. *holathera*	SGD044-03	0.2	0.1
Aristida inaequiglumis	=SGD025-06	0.3	0.1
Bonamia erecta	SGD044-04	0.1	0.1
Corchorus lasiocarpus ? subsp. *parvus*	SGD044-02	0.4	0.1
Corymbia hamersleyana	NC	4	1
Cullen pustulatum	NC	0.3	0.1
Dampiera candicans	NC	0.2	0.1
Dicrastylis cordifolia	SGD044-06	0.8	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Eragrostis eriopoda	SGD044-08	0.1	0.1
Eriachne aristidea	=SGD029-03	0.1	0.1
Eucalyptus gamophylla	NC	3.5	7
Eulalia aurea	NC	0.2	0.1
Euploca cunninghamii	=SGD025-04	0.2	0.1
Goodenia stobbsiana	NC	0.1	0.1
Gossypium robinsonii	NC	0.2	0.1
Grevillea wickhamii ? subsp.	SGD044-07	3	0.5
Hibiscus sp.	NC	0.1	0.1
Indigofera monophylla	NC	0.3	0.1
Neurachne muelleri	NC	0.3	0.1
Ptilotus calostachyus	NC	0.4	0.1
Ptilotus exaltatus	NC	0.2	0.1
Rhynchosia minima	NC	0.2	0.1
Scaevola browniana subsp. *browniana*	=SGD035-09	0.3	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.6	0.5
Senna glutinosa subsp. *glutinosa*	NC	0.9	0.1
Senna notabilis	NC	0.2	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Sida ?arenicola	SGD044-01	0.2	0.1
Solanum ?phlomoides	NC	0.5	0.1
Solanum sp.	NC	0.4	0.1
Tephrosia densa	SGD044-09	1.1	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.3	0.1
Trigastrotheca molluginea	NC	0.2	0.1
Triodia epactia	SGD044-05	0.7	2
Triodia vanleeuwenii	NC	0.4	9
Triodia wiseana	NC	0.6	15

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD045	13-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	705176	mE	
Northing	7511208	mS	
Site Characteristics			
Landform	Incline - Lower Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Acacia xiphophylla* tall shrubland over *Triodia wiseana* very open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	0.6	0.1
Acacia sp. (aneura complex)	SGD045-03	1.5	0.1
Acacia xiphophylla	NC	5	15
Eremophila cuneifolia	NC	0.9	0.5
Eremophila latrobei subsp. *filiformis*	NC	1.8	0.1
Hibiscus sp. Gardneri (A.L. Payne PRP 1435)	SGD045-06	1.9	0.1
Lepidium platypetalum	SGD045-01	0.4	0.5
Ptilotus exaltatus	NC	0.1	0.1
Salsola australis	NC	0.1	0.1
Sclerolaena sp.	SGD045-02	0.2	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	1.8	0.1
Senna stricta	SGD045-05	0.5	0.5
Trianthema triquetrum	NC	0.05	0.1
Tribulus suberosus	NC	1.2	0.1
Triodia epactia	SGD045-04	0.3	0.1
Triodia wiseana	NC	0.3	8

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD046	13-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	705187	mE	
Northing	7510845	mS	
Site Characteristics			
Landform	Incline - Lower Slope		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Mining exploration		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia xiphophylla* tall shrubland over *Lepidium platypetalum* low scattered shrubs over *Triodia wiseana* and *Triodia vanleeuwenii* very open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ?aptaneura	SGD046-01	2.2	0.5
Acacia bivenosa	NC	1.2	0.1
Acacia xiphophylla	NC	3	20
Eremophila cuneifolia	NC	0.6	0.5
Eremophila latrobei subsp. *filiformis*	NC	1.6	0.1
Lepidium platypetalum	=SGD045-01	0.6	1
Maireana planifolia	SGD046-03	0.3	0.1
Ptilotus exaltatus	NC	0.2	0.5
Santalum lanceolatum	SGD046-02	1.6	0.1
Sclerolaena sp.	=SGD045-02	0.1	0.1
Senna artemisioides subsp. *helmsii*	NC	0.9	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	0.7	0.1
Senna stricta	=SGD045-05	0.7	0.5
Trianthema triquetrum	NC	0.5	0.1
Triodia epactia	=SGD044-05	0.3	0.5
Triodia vanleeuwenii	NC	0.2	1
Triodia wiseana	NC	0.3	3

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD047	13-03-25	
Dimensions	25 m x 100 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	705566	mE	
Northing	7511158	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Acacia tumida* var. *pilbarensis* and *Grevillea wickhamii* ?subsp. tall open scrub over *Duperreya commixta* scattered vines over *Tephrosia rosea* var. Fortescue Creeks (M.I.H Brooker 2186) low scattered shrubs over *Triodia epactia* very open hummock grassland over **Cenchrus ciliaris* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon ? sp. Dioicum (A.A. Mitchell PRP 1618)	SGD047-06	1.9	0.1
Abutilon fraseri subsp. *fraseri*	SGD047-09	0.2	0.1
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	NC	2.2	0.1
Acacia bivenosa	NC	2.1	0.5
Acacia pyrifolia var. *pyrifolia*	NC	1.8	0.5
Acacia tumida var. *pilbarensis*	NC	3.8	29
Afrohybanthus aurantiacus	NC	0.2	0.1
Aristida holathera var. *holathera*	SGD047-11	0.3	0.1
Arivela viscosa	NC	0.3	0.1
Atalaya hemiglauca	NC	4	0.1
Cassytha capillaris	SGD047-04	0.2	0.1
**Cenchrus ciliaris*	NC	0.3	3
Corchorus ?lasiocarpus subsp. *lasiocarpus*	=SGD035-08	0.5	0.1
Corymbia hamersleyana	NC	5.7	1
Cucumis variabilis	NC	0.3	0.1
Cymbopogon ambiguus	NC	0.2	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Duperreya commixta	NC	2	1.5
Enneapogon lindleyanus	=SGD025-03	0.2	0.1
Enneapogon polyphyllus	=SGD032-09	0.2	0.1
Eriachne mucronata	=SGD035-08	0.2	0.5
Eriachne mucronata	SGD047-10	0.1	0.1
Eulalia aurea	NC	0.2	0.1
Euphorbia biconvexa	NC	0.2	0.1
Euphorbia careyi	SGD047-03	0.1	0.1
Euploca sp.	NC	0.05	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1
Gossypium robinsonii	NC	3	0.5
Grevillea wickhamii ? subsp.	SGD047-01	4.7	6
Hibiscus coatesii	SGD047-08	0.6	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Indigofera monophylla	NC	0.4	0.1
Indigofera monophylla	SGD047-05	0.6	0.1
Jasminum didymum subsp. *lineare*	NC	2	0.1
Nellica maderaspatensis	NC	0.3	0.1
Neurachne muelleri	NC	0.2	0.1
Notoleptopus decaisnei	NC	0.2	0.1
Paspalidium clementii	SGD047-13	0.1	0.1
Petalostylis labicheoides	NC	2.5	0.5
Polycarpaea sp.	NC	0.1	0.1
Ptilotus ?fusifomis	SGD047-12	0.2	0.1
Ptilotus astrolasius	NC	0.3	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Ptilotus sp.	NC	0.2	0.1
Rhynchosia minima	NC	0.2	0.1
Santalum lanceolatum	NC	3	0.5
Scaevola spinescens	NC	0.8	0.5
Senna glutinosa subsp. *glutinosa*	NC	1.8	0.1
Senna notabilis	NC	0.1	0.1
Sida sp. Articulation below (A.A. Mitchell PRP 1605)	SGD047-14	0.4	0.1
Solanum ?phlomoides	NC	0.5	0.1
Solanum phlomoides	SGD047-07	0.5	0.1
Streptoglossa decurrens	NC	0.4	0.1
Stylobasium spathulatum	NC	1.8	0.1
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)	=SGD029-02	0.9	1.5
Themeda triandra	NC	0.3	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.5	0.1
Triodia epactia	SGD047-02	0.4	4

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD048	13-03-25	
Dimensions	25 m x 100 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	705763	mE	
Northing	7509762	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	West		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Hakea chordophylla* scattered tall shrubs over *Senna glutinosa* subsp. *glutinosa* low scattered shrubs over *Ptilotus* sp. very open herbland *Triodia vanleeuwenii* and *Triodia epactia* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pruinocarpa	NC	0.1	0.1
Aristida ?holathera var. *holathera*	NC	0.2	0.1
Dolichocarpa crouchiana	=SGD036-03	0.1	0.1
Eriachne lanata	=SGD030-01	0.2	0.1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD026-01	3.4	2.5
Goodenia triodiophila	SGD048-03	0.3	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	0.6	0.1
Hakea chordophylla	=SGD026-10	2.2	1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.1	0.1
Ptilotus sp.	NC	0.1	0.1
Ptilotus sp.	=SGD028-03	0.4	2.5
Senna glutinosa subsp. *glutinosa*	SGD048-02	0.9	1
Sida sp.	SGD048-04	0.3	0.1
Triodia epactia	SGD048-05	0.4	1
Triodia vanleeuwenii	SGD048-01	0.2	28

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD049	13-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	705863	mE	
Northing	7509477	mS	
Site Characteristics			
Landform	Incline - Lower Slope		
Slope	Low (1-20º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia bivenosa* low open shrubland over *Triodia wiseana* and *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	SGD049-05	0.6	0.1
Acacia bivenosa	SGD049-04	0.8	2.5
Dolichocarpa crouchiana	=SGD036-03	0.2	0.1
Eriachne aristidea	SGD049-07	0.1	0.1
Eriachne lanata	=SGD030-01	0.2	0.1
Eriachne pulchella subsp. *dominii*	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	3.4	2.5
Goodenia muelleriana	SGD049-06	0.1	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	0.6	0.1
Pluchea tetranthera	SGD049-03	0.6	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.2	0.1
Ptilotus sp.	=SGD028-03	0.3	0.1
Ptilotus sp.	=SGD028-03	0.4	0.1
Senna glutinosa subsp. *glutinosa*	NC	0.6	0.1
Tribulus suberosus	NC	0.3	0.1
Triodia vanleeuwenii	SGD048-01	0.2	12
Triodia wiseana	SGD049-02	0.3	17

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD050	13-03-25	
Dimensions	12.5 m x 200 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	705426	mE	
Northing	7508204	mS	
Site Characteristics			
Landform	Gully		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Common		
Exposed Bedrock (%)	Extensive (70%+)		

Vegetation Description	*Corymbia ferriticola* low open woodland over *Acacia tumida* var. pilbarensis, *Petalostylis labicheoides*, *Grevillea wickhamii* ?subsp. tall open scrub over *Duperreya commixta* tall open vines over *Santalum lanceolatum* scattered low shrubs over *Triodia pungens* very open hummock grassland over *Eriachne mucronata*, *Themeda triandra*, and *Aristida nitidula* tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.3	0.1
Acacia arida	=SGD049-05	0.4	0.1
Acacia arida	=SGD049-05	1.8	0.1
Acacia bivenosa	NC	2.8	0.1
Acacia maitlandii	=SGD037-02	2.7	0.1
Acacia monticola	SGD050-13	2.7	0.1
Acacia sp.	NC	5.8	0.1
Acacia sp. (aneura complex)	NC	3.8	0.1
Acacia spondylophylla	=SGD036-01	0.4	0.1
Acacia tumida var. *pilbarensis*	SGD050-10	3.4	30
Afrohybanthus aurantiacus	SGD050-03	0.5	0.1
Androcalva luteiflora	SGD050-11	0.8	0.1
Aristida sp.	NC	0.4	1
Capparis spinosa subsp. *nummularia*	=OppJCOR-04-01	0.4	0.1
Cheilanthes sp.	NC	0.1	0.1
Clerodendrum floribundum var. *angustifolium*	SGD050-02	2.2	0.1
Corchorus sp.	=SGDr004-02	0.2	0.1
Corchorus sp.	=SGDr004-02	0.2	0.1
Corymbia ferriticola	SGD050-01	6.8	3
Corymbia hamersleyana	SGD050-08	3.8	0.5
Cymbopogon ambiguus	NC	0.8	0.1
Dodonaea pachyneura	NC	1.8	0.1
Duperreya commixta	NC	3	4
Eriachne mucronata	NC	0.3	11
Euphorbia ?trigonosperma	SGD050-12	0.2	0.1
Gomphrena sp.	NC	0.1	0.1
Gossypium robinsonii	NC	2.1	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	2.6	2
Neurachne muelleri	NC	0.3	0.1
Nicotiana benthamiana	SGD050-04	0.2	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Paspalidium clementii	SGD050-06	0.2	0.1
Petalostylis labicheoides	=SGDr004-01	2.9	5
Psydrax latifolia	NC	0.8	0.1
Santalum lanceolatum	=SGDr004-02	1.8	1
Senna artemisioides subsp. *oligophylla*	NC	0.5	0.1
Senna venusta	SGD050-05	0.4	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD031-03	0.2	0.1
Solanum perarmatum	SGD050-07	0.4	0.1
Themeda triandra	NC	0.2	3
Triodia pungens	SGD050-09	0.6	6

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD051	14-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	705948	mE	
Northing	7508066	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Steep (46-75º)		
Aspect	South		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low woodland over *Triodia epactia* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ?elachantha	SGD051-06	1.6	0.1
Acacia dictyophleba	NC	0.6	0.1
Acacia tenuissima	SGD051-04	0.6	0.1
Corymbia hamersleyana	NC	0.8	0.1
Eriachne mucronata	NC	0.2	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	6	15
Goodenia cusackiana	SGD051-03	0.1	0.1
Grevillea wickhamii ? subsp.	NC	0.5	0.1
Ptilotus astrolasius	NC	0.2	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Ptilotus sp.	NC	0.1	0.1
Ptilotus sp.	SGD051-07	0.1	0.1
Ptilotus sp.	SGD051-05	0.1	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	0.4	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.2	0.1
Themeda ?triandra	SGD051-02	0.2	0.1
Tribulus suberosus	NC	1.1	0.1
Triodia epactia	SGD051-01	0.4	26

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD052	17-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	714649	mE	
Northing	7505048	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Low (1-20º)		
Aspect	South-east		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Rare		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Corymbia ?hamersleyana* low scattered trees over *Acacia tumida* var. pilbarensis, *Acacia pyrifolia* var. *pyrifolia* , and *Gossypium robinsonii* tall shrubland over *Clerodendrum floribundum* var. *angustifolium* scattered shrubs over **Cenchrus ciliaris* tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	=SGD071-05	0.1	0.1
Acacia pyrifolia var. *pyrifolia*	SGD052-02	2.1	2.5
Acacia tumida var. *pilbarensis*	=SGD050-10	2.9	16
Afrohybanthus aurantiacus	NC	0.5	0.1
Androcalva luteiflora	=SGD050-11	0.9	0.1
Arivela viscosa	NC	0.4	0.1
Atalaya hemiglauca	=SGD074-06	1.6	0.1
**Cenchrus ciliaris*	NC	0.5	38
Clerodendrum floribundum var. *angustifolium*	=SGD071-03	1.8	1
Corchorus sp.	=SGDr004-02	0.4	0.1
Corymbia ?hamersleyana	=SGDr004-09	5	1
Cucumis variabilis	NC	1.6	0.1
Dolichocarpa crouchiana	=SGD036-03	0.2	0.1
Duperreya commixta	NC	1.8	0.1
Enneapogon caerulescens	NC	0.3	0.1
Eriachne mucronata	SGD052-01	0.4	0.1
Eucalyptus gamophylla	=SGD026-09	3.2	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.7	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Gossypium robinsonii	NC	2.8	1
Grevillea wickhamii ? subsp.	=SGD026-13	2.2	0.5
Indigofera monophylla	NC	0.3	0.1
Polycarpaea ?longiflora	NC	0.2	0.1
Ptilotus exaltatus	NC	0.4	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	0.1
Ptilotus sp.	=SGD028-03	0.5	0.1
Santalum lanceolatum	=SGDr004-06	2.2	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.3	0.1
Tephrosia densa	=SGDr004-10	0.5	0.5
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Triodia pungens	SGD052-03	0.4	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD053	13-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	706448	mE	
Northing	7510630	mS	
Site Characteristics			
Landform	Drainage - Incised Flowline		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Mining exploration, Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* low open woodland over *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. hispidula, and *Gossypium robinsonii* tall shrubland over *Senna artemisioides* subsp. *oligophylla* scattered shrubs over *Triodia ?epactia/pungens* hummock grassland over **Cenchrus ciliaris* scattered tussock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
?Abutilon sp.	SGD053-06	0.4	0.1
Acacia pyrifolia var. *pyrifolia*	NC	0.5	0.5
Acacia tumida var. *pilbarensis*	NC	4	7
Afrohybanthus aurantiacus	NC	0.4	0.1
Aristida contorta	=SGD119-02	0.3	0.1
Arivela viscosa	NC	0.5	0.1
**Cenchrus ciliaris*	NC	0.4	1
Corchorus crozophorifolius	NC	0.4	0.1
Corymbia hamersleyana	NC	6	3
Crotalaria novae-hollandiae subsp. *novae-hollandiae*	SGD053-08	0.2	0.1
Cymbopogon ambiguus	NC	0.5	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Enneapogon caerulescens	NC	0.5	0.1
Eriachne mucronata	NC	0.4	0.1
Euphorbia careyi	SGD053-04	0.2	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.5	0.1
Gomphrena cunninghamii	NC	0.1	0.1
Gomphrena sp.	NC	0.1	0.1
Gossypium robinsonii	NC	2.5	1.5
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	2.2	4
Indigofera monophylla	NC	0.2	0.1
Jasminum didymum subsp. *lineare*	NC	0.7	0.1
Nellica maderaspatensis	NC	0.3	0.1
Notoleptopus decaisnei	SGD053-03	0.1	0.1
Polycarpaea sp.	NC	0.2	0.1
Polymeria mollis	SGD053-07	0.1	0.1
Ptilotus exaltatus	NC	0.4	0.1
Santalum lanceolatum	NC	2.2	0.5
Senna artemisioides subsp. *oligophylla*	NC	1	1.5
Tephrosia ?densa	SGD053-05	0.7	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Trichodesma zeylanicum var. *zeylanicum*	NC	0.5	0.1
Triodia ?epactia/pungens	SGD053-01	0.6	50
Triodia ?vanleeuwenii	SGD053-02	0.3	0.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD054	17-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	705650	mE	
Northing	7507006	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Road access tracks		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar, Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone,Quartz		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Grevillea wickhamii* ?subsp. open shrubland over *Acacia spondylophylla* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pruinocarpa	NC	2.1	0.1
Acacia spondylophylla	=SGD036-01	0.5	4
Acacia tumida var. *pilbarensis*	=SGD050-10	1.6	0.1
Aristida ?holathera var. *holathera*	NC	0.2	0.1
Calytrix carinata	SGD054-07	0.3	0.1
Corchorus ?lasiocarpus subsp. *lasiocarpus*	NC	0.5	0.1
Corymbia hamersleyana	SGD054-08	4.2	0.5
Eriachne aristidea	SGD054-04	0.2	0.1
Eucalyptus leucophloia subsp. *leucophloia*	SGD054-09	3.9	2.5
Grevillea wickhamii ? subsp.	=SGD026-13	1.9	2.5
Hakea lorea subsp. *lorea*	SGD054-01	2.8	0.1
Ptilotus ?rotundifolius	NC	0.3	0.1
Ptilotus astrolasius	SGD054-03	0.3	0.1
Ptilotus exaltatus	NC	0.5	0.1
Ptilotus sp.	=SGD028-03	0.4	0.1
Senna ?glaucifolia	NC	1.2	0.1
Senna venusta	=SGD050-05	0.4	0.1
Tephrosia arenicola	=SGD057-01	0.3	0.1
Triodia vanleeuwenii	SGD054-06	0.3	32
Triodia wiseana	SGD054-05	0.5	2.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD055	14-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	707029	mE	
Northing	7504169	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Dark brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Acacia tumida* var. *pilbarensis*, *Gossypium robinsonii*, *Grevillea wickhamii* subsp. hispidula, *Acacia maitlandii*, *Acacia monticola*, and *Acacia pyrifolia* var. *pyrifolia* tall shrubland over *Senna artemisioides* subsp. *oligophylla* open shrubland over *Tephrosia ?densa*, *Afrohybanthus aurantiacus*, and *Ptilotus obovatus* var. *obovatus* low open shrubland over *Triodia wiseana* open hummock grassland over **Cenchrus ciliaris*, *Aristida contorta*, and *Enneapogon caerulescens* open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	=SGD040-01	0.8	0.1
Acacia inaequilatera	NC	3	0.1
Acacia maitlandii	NC	2.2	3
Acacia monticola	NC	2.3	3
Acacia pyrifolia var. *pyrifolia*	NC	2.1	1.5
Acacia tumida var. *pilbarensis*	NC	2.5	8
Afrohybanthus aurantiacus	NC	0.4	1
Aristida contorta	=SGD119-02	0.4	4
Arivela viscosa	NC	0.3	0.1
Atalaya hemiglauca	NC	1.9	0.1
Bonamia erecta	=SGDr020-03	0.3	0.1
**Cenchrus ciliaris*	NC	0.3	6
Corchorus crozophorifolius	NC	0.2	0.1
Corymbia hamersleyana	NC	3	1.5
Cucumis variabilis	NC	1.3	0.1
Cymbopogon ambiguus	NC	0.6	0.5
Dolichocarpa crouchiana	NC	0.1	0.1
Duperreya commixta	NC	0.4	0.1
Enneapogon caerulescens	NC	0.3	3
Enneapogon polyphyllus	NC	0.2	0.1
Eragrostis eriopoda	SGD055-03	0.2	0.1
Eriachne mucronata	NC	0.3	1
Eriachne pulchella subsp. *dominii*	NC	0.1	0.1
Euphorbia ?biconvexa	SGD055-05	0.4	0.1
Euphorbia careyi	=SGD053-04	0.2	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.5	0.1
Gossypium robinsonii	NC	2.5	6
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	2.5	3
Hibiscus coatesii	SGD055-02	0.1	0.1
Indigofera monophylla	NC	0.4	0.5

Taxon	Collection Code	Height (m)	Cover (%)
Neurachne muelleri	NC	0.4	0.1
Polycarpaea sp.	NC	0.3	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus fusiformis	NC	0.4	0.1
Ptilotus obovatus var. *obovatus*	NC	0.9	1
Santalum lanceolatum	NC	1.8	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.3	2.5
Senna glutinosa subsp. *glutinosa*	NC	1.6	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD121-05	0.2	0.1
Stylobasium spathulatum	NC	2.5	0.1
Tephrosia ?densa	=SGD053-05	0.3	5
Tribulus suberosus	NC	0.5	0.1
Triodia wiseana	SGD055-01	0.5	12
Triumfetta maconochieana	SGD055-04	0.5	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD056	16-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	713722	mE	
Northing	7505065	mS	
Site Characteristics			
Landform	Gorge		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Boulders (>61 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Major (50-70%)		

Vegetation Description	*Corymbia ferriticola* woodland over *Eucalyptus leucophloia* subsp. *leucophloia* and *Senna venusta* low woodland over *Acacia ?paraneura*, *Acacia tumida* var. pilbarensis, *Acacia pruinocarpa*, and *Atalaya hemiglauca* tall shrubland over *Dodonaea pachyneura* open shrubland over *Capparis spinosa* subsp. *nummularia* scattered shrubs over *Themeda triandra*, *Aristida burbidgeae*, and *Eriachne mucronata* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon ? sp. Dioicum (A.A. Mitchell PRP 1618)	SGD056-10	1.4	0.1
Acacia ?paraneura	SGD056-01	7	5
Acacia monticola	NC	2.5	0.1
Acacia pruinocarpa	NC	5	2.5
Acacia tumida var. *pilbarensis*	NC	4	5
Aristida burbidgeae	SGD056-06	0.4	3
Arivela viscosa	NC	0.1	0.1
Atalaya hemiglauca	NC	5	1
Capparis lasiantha	NC	1.9	0.1
Capparis spinosa subsp. *nummularia*	NC	0.4	1
**Cenchrus ciliaris*	NC	0.3	0.5
Clerodendrum sp.	SGD056-03	0.9	0.1
Corymbia ferriticola	SGD056-07	12	10
Cucumis variabilis	NC	0.6	0.1
Cymbopogon ambiguus	NC	0.5	0.1
Cyperus cunninghamii subsp. *cunninghamii*	SGD056-05	0.2	0.1
Dampiera candicans	NC	0.3	0.1
Dodonaea pachyneura	NC	1.9	5
Dodonaea petiolaris	NC	2.1	0.1
Duperreya commixta	NC	0.9	0.1
Eriachne lanata	=SGD042-05	0.4	0.1
Eriachne mucronata	NC	0.3	3
Eucalyptus leucophloia subsp. *leucophloia*	NC	8	8
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	1.4	0.5
Hibiscus sp. Mt Robinson (G. Byrne 3537)	SGD056-02	0.8	0.1
Paspalidium tabulatum	=SGD059-03	0.1	0.1
Psydrax latifolia	NC	1.5	0.5
Pterocaulon sp.	SGD056-09	0.3	0.1
Ptilotus exaltatus	NC	0.2	0.1
Rhynchosia minima	SGD056-11	0.2	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Senna venusta	SGD056-13	8	5
Senna venusta	SGD056-12	0.8	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD031-03	0.2	0.1
Sida sp.	=SGD084-07	0.2	0.1
Solanum sp.	=SGD059-01	0.1	0.1
Themeda triandra	NC	0.4	4
Tinospora smilacina	=SGD059-05	1.8	0.1
Triodia ?epactia/pungens	SGD056-08	0.3	2
Triumfetta leptacantha	SGD056-04	0.6	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD057	15-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	709312	mE	
Northing	7504030	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Low (1-20º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Grevillea wickhamii* ?subsp. scattered shrubs over *Acacia arida*, *Acacia spondylophylla*, and *Mirbelia viminalis* low shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	=SGD037-07	0.4	5
Acacia maitlandii	=OppJCOR-02-01	1.1	0.1
Acacia spondylophylla	=SGD036-01	0.4	4.5
Eucalyptus leucophloia subsp. *leucophloia*	=SGD026-01	2.8	1.5
Gompholobium oreophilum	=SGD026-08	0.4	0.1
?Goodenia stobbsiana	=SGD028-02	0.2	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	1.2	1.5
Mirbelia viminalis	=SGD030-02	0.7	1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus sp.	=SGD028-03	0.5	0.1
Tephrosia arenicola	SGD057-01	0.4	0.1
Triodia vanleeuwenii	=SGD063-01	0.3	20
Triodia wiseana	=SGD063-02	0.3	8

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD058	14-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	707801	mE	
Northing	7504772	mS	
Site Characteristics			
Landform	Incline - Footslope		
Slope	Low (1-20º)		
Aspect	West		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Acacia inaequilatera* scattered tall shrubs over *Acacia tumida* var. *pilbarensis* open shrubland over *Calytrix carinata* scattered low open shrubs over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	NC	0.3	0.5
Acacia inaequilatera	NC	2.2	1.5
Acacia tenuissima	=SGD042-07	0.7	0.1
Acacia tumida var. *pilbarensis*	NC	1.9	2.5
Afrohybanthus aurantiacus	NC	0.3	0.1
Aristida contorta	=SGD119-02	0.2	0.1
Bonamia erecta	=SGDr020-03	0.2	0.1
Calytrix carinata	=SGD041-02	0.3	1
Corchorus lasiocarpus subsp. *lasiocarpus*	=SGD042-04	0.3	0.1
Corymbia hamersleyana	NC	3	2
Eriachne mucronata	NC	0.3	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	4	2.5
Fimbristylis simulans	=SGD040-03	0.3	0.1
Gompholobium oreophilum	SGD058-02	0.2	0.1
Goodenia triodiophila	SGD058-04	0.2	0.1
?Goodenia stobbsiana	=SGD060-04	0.1	0.1
Grevillea wickhamii ? subsp.	=SGD124-05	0.6	0.1
Hakea chordophylla	=SGD041-06	2.5	0.5
Indigofera monophylla	NC	0.2	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.1	0.1
Scaevola browniana subsp. *browniana*	=SGD040-04	0.2	0.1
Senna artemisioides subsp. *helmsii*	NC	0.3	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.1	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia vanleeuwenii	SGD058-01	0.2	25
Triodia wiseana	SGD058-03	0.2	3

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD059	14-03-25	
Dimensions	12.5 m x 200 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	707305	mE	
Northing	7504742	mS	
Site Characteristics			
Landform	Drainage - Incised Flowline		
Slope	Low (1-20º)		
Aspect	West		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar, Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Dark brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Corymbia hamersleyana* and *Santalum lanceolatum* low woodland over *Acacia tumida* var. *pilbarensis* tall open scrub over *Grevillea wickhamii* subsp. hispidula, *Acacia maitlandii*, and *Acacia monticola* open shrubland over *Triodia pungens* very open hummock grassland over *Themeda triandra*, *Aristida ?holathera* var. *holathera*, *Eriachne mucronata*, and *Neurachne muelleri* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adoxa var. *adoxa*	=SGD041-03	0.5	0.1
Acacia maitlandii	NC	1.6	2.5
Acacia monticola	NC	1.9	1
Acacia tumida var. *pilbarensis*	NC	4	31
Afrohybanthus aurantiacus	NC	0.6	0.5
Aristida ?holathera var. *holathera*	NC	0.6	1
Arivela viscosa	NC	0.2	0.1
Bonamia erecta	=SGDr020-03	0.2	0.1
Corchorus crozophorifolius	NC	0.3	0.1
Corchorus lasiocarpus subsp. *lasiocarpus*	=SGD042-04	0.3	0.1
Corymbia hamersleyana	NC	7	6
Cucumis variabilis	NC	3	0.1
Cymbopogon ambiguus	NC	0.6	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Duperreya commixta	NC	0.9	0.5
Enneapogon caerulescens	NC	0.3	0.1
Eriachne mucronata	NC	0.4	2
Eriachne mucronata	SGD055-03	0.4	0.1
Euphorbia careyi	=SGD053-04	0.1	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.3	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Ficus brachypoda	SGD059-04	3	0.1
Gossypium robinsonii	NC	0.8	0.1
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	1.5	7
Indigofera monophylla	NC	0.2	0.1
Jasminum didymum subsp. *lineare*	NC	0.7	0.1
Neurachne muelleri	NC	0.5	1
Notoleptopus decaisnei	=SGD053-03	0.2	0.1
Paspalidium tabulatum	SGD059-03	0.1	0.1
Polycarpaea sp.	NC	0.2	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Ptilotus calostachyus	NC	0.4	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus fusiformis	NC	0.2	0.1
Santalum lanceolatum	NC	2.1	2
Senna glutinosa subsp. *glutinosa*	NC	1.7	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD121-05	0.3	0.1
Solanum sp.	SGD059-01	0.2	0.1
Stylobasium spathulatum	NC	1.6	0.5
Tephrosia ?densa	=SGD053-05	0.4	0.1
Themeda triandra	NC	0.6	18
Tinospora smilacina	SGD059-05	1.9	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	1.8	0.1
Triodia pungens	SGD059-02	0.5	8

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD060	14-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	707347	mE	
Northing	7504298	mS	
Site Characteristics			
Landform	Incline - Lower Slope		
Slope	Low (1-20º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* scattered low trees over *Acacia maitlandii* scattered shrubs over *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adoxa var. *adoxa*	=SGD041-03	0.2	0.5
Acacia hilliana	NC	0.2	8
Acacia maitlandii	NC	1.4	1
Dampiera candicans	NC	0.2	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Eriachne mucronata	NC	0.2	0.1
Eucalyptus gamophylla	NC	1.8	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	3	1.5
Euploca glabella	SGD060-03	0.4	0.1
Fimbristylis simulans	=SGD040-03	0.1	0.1
Goodenia ?stobbsiana	SGD060-04	0.1	0.1
Grevillea wickhamii ? subsp.	=SGD124-05	0.4	0.5
Hakea chordophylla	=SGD041-06	3	0.1
Ptilotus calostachyus	NC	0.3	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.5	0.1
Senna glutinosa subsp. *pruinosa*	SGD060-02	0.7	0.5
Senna notabilis	NC	0.2	0.1
Solanum ?phlomoides	NC	0.2	0.1
Tribulus suberosus	NC	0.9	0.1
Triodia vanleeuwenii	SGD060-01	0.1	18
Triodia wiseana	SGD060-04	0.3	3

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD061	14-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	708482	mE	
Northing	7503891	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus kingsmillii* and *Eucalyptus gamophylla* open mallee over *Grevillea wickhamii* ?subsp. and *Acacia maitlandii* scattered shrubs over *Mirbelia viminalis* and *Acacia spondylophylla* low open shrubland over *Ptilotus calostachyus* scattered herbs over *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	=SGD040-01	0.4	0.1
Acacia dictyophleba	SGD061-02	1.5	0.1
Acacia maitlandii	NC	1.4	0.5
Acacia spondylophylla	=SGD041-05	0.4	0.5
Bonamia erecta	=SGDr020-03	0.1	0.1
Eucalyptus gamophylla	NC	3	5
Eucalyptus kingsmillii	NC	2.1	2
Eucalyptus leucophloia subsp. *leucophloia*	NC	2.2	0.1
Grevillea wickhamii ? subsp.	=SGD124-05	1.4	1.5
Hakea chordophylla	=SGD041-06	1.5	0.1
Mirbelia viminalis	=SGD041-08	0.5	2
Poaceae sp.	NC	0.1	0.1
Ptilotus calostachyus	NC	0.5	1.5
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.2	0.1
Solanum sp.	NC	0.3	0.1
Triodia wiseana	SGD061-01	0.2	18

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD062	15-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	708646	mE	
Northing	7503277	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	South		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Acacia spondylophylla*, *Acacia arida*, and *Mirbelia viminalis* low shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	SGD062-01	0.4	9
Acacia maitlandii	NC	0.9	0.1
Acacia spondylophylla	NC	0.3	15
Aristida holathera var. *holathera*	SGD062-07	0.1	0.1
Corchorus sp.	NC	0.3	0.1
Corymbia hamersleyana	NC	4	0.5
Dampiera candicans	NC	0.2	0.1
Eriachne lanata	SGD062-06	0.2	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	4	1.5
Goodenia stobbsiana	NC	0.05	0.1
Grevillea wickhamii ? subsp.	SGD062-04	1.2	0.5
Hakea chordophylla	NC	3	0.5
Mirbelia viminalis	SGD062-02	0.7	2
Ptilotus calostachyus	NC	0.1	0.1
Seringia exastia	SGD062-03	0.2	0.1
Sida cardiophylla	SGD062-05	0.2	0.1
Triodia vanleeuwenii	NC	0.2	9
Triodia wiseana	NC	0.3	7

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD063	15-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	710546	mE	
Northing	7502754	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Low (1-20º)		
Aspect	South-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus gamophylla* and *Eucalyptus kingsmillii* low open mallee over *Hakea chordophylla* and *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adoxa var. *adoxa*	=SGD026-02	0.3	0.1
Acacia hilliana	=SGD026-04	0.3	2
Acacia pyrifolia ? var.	NC	1.1	0.1
Amphipogon ?sericeus	SGD063-04	0.2	0.1
Aristida ?holathera var. *holathera*	NC	0.2	0.1
Corchorus sp.	=SGDr004-02	0.7	0.1
Cymbopogon ambiguus	NC	0.4	0.1
Eriachne mucronata	=SGD070-06	0.3	0.1
Eucalyptus gamophylla	=SGD026-09	1.9	2
Eucalyptus kingsmillii	=SGD026-05	1.6	1.5
Eucalyptus leucophloia subsp. *leucophloia*	=SGD026-01	1.9	0.5
Goodenia sp.	SGD063-03	0.2	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	2.2	0.5
Hakea chordophylla	=SGD026-10	3.2	0.5
Mirbelia viminalis	=SGD030-02	0.4	0.1
Petalostylis labicheoides	=SGDr004-01	1.2	0.1
Ptilotus sp.	=SGD028-03	0.8	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.5	0.1
Triodia vanleeuwenii	SGD063-01	0.2	12
Triodia wiseana	SGD063-02	0.3	0.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD064	14-03-25	
Dimensions	40 m x 62.5 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	709696	mE	
Northing	7508405	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Steep (46-75º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Triodia epactia* and *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	1.2	0.1
Acacia inaequilatera	NC	2.5	0.5
Acacia pruinocarpa	NC	1.4	0.1
Acacia tenuissima	=SGD051-04	0.8	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Eriachne mucronata	NC	0.2	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	6	9
Goodenia cusackiana	=SGD051-03	0.1	0.1
Grevillea wickhamii ? subsp.	NC	2.1	0.5
Hakea chordophylla	NC	1	0.1
Indigofera monophylla	NC	0.2	0.1
Ptilotus ?clementii	SGD064-01	0.2	0.1
Ptilotus astrolasius	NC	0.3	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	0.1
Ptilotus sp.	=SGD051-05	0.2	0.1
Senna artemisioides subsp. *helmsii*	NC	0.6	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.3	0.1
Solanum ?phlomoides	SGD064-02	0.2	0.1
Tribulus suberosus	NC	0.9	0.1
Triodia epactia	=SGD051-01	0.5	23
Triodia vanleeuwenii	NC	0.2	6

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD065	14-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	710143	mE	
Northing	7508541	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Steep (46-75º)		
Aspect	South		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low woodland over *Acacia bivenosa* low scattered shrubs over *Triodia vanleeuwenii* and *Triodia epactia* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	0.9	1
Eriachne mucronata	NC	0.3	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	7	15
Grevillea wickhamii ? subsp.	NC	0.9	0.1
Hakea chordophylla	NC	0.5	0.1
Ptilotus ?clementii	=SGD064-01	0.1	0.1
Ptilotus calostachyus	NC	0.3	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Ptilotus sp.	NC	0.1	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	0.5	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.1	0.1
Solanum ?phlomoides	NC	0.2	0.1
Solanum sp.	NC	0.1	0.1
Themeda ?triandra	SGD065-02	0.2	0.1
Tribulus suberosus	NC	0.4	0.1
Triodia epactia	SGD065-01	0.2	10
Triodia vanleeuwenii	NC	0.2	17
Triodia wiseana	NC	0.2	0.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD066	14-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	712334	mE	
Northing	7507198	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia bivenosa* scattered shrubs over *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ancistrocarpa	NC	0.8	0.1
Acacia bivenosa	NC	1.2	1
Acacia inaequilatera	NC	1.8	0.1
Acacia pachyacra	SGD066-02	1.5	0.1
Corchorus sp.	NC	0.1	0.1
Corymbia hamersleyana	NC	1.1	0.1
Eriachne aristidea	SGD066-01	0.1	0.1
Eriachne mucronata	NC	0.2	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	6	3
Euploca ?chrysocarpa	SGD066-05	0.1	0.1
Goodenia muelleriana	SGD066-03	0.1	0.1
Goodenia sp.	NC	0.1	0.1
Goodenia stobbsiana	NC	0.1	0.1
Grevillea wickhamii ? subsp.	NC	1.2	0.5
Hakea chordophylla	NC	0.5	0.1
Ptilotus ?clementii	=SGD064-01	0.1	0.1
Ptilotus astrolasius	NC	0.2	0.1
Ptilotus calostachyus	NC	0.4	0.1
Ptilotus sp.	NC	0.1	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	1.7	0.1
Senna glutinosa subsp. *pruinosa*	NC	0.6	0.1
Solanum ?phlomoides	NC	0.2	0.1
Tribulus suberosus	NC	1.2	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia vanleeuwenii	NC	0.3	22

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD070	14-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	712184	mE	
Northing	7505060	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Low (1-20º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Acacia arida* low open shrubland over *Triodia vanleeuwenii* and *Triodia* ?*epactia* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	SGD070-06	0.7	2.5
Acacia bivenosa	=SGD049-04	0.6	0.1
Acacia pruinocarpa	NC	1.2	0.1
Acacia pyrifolia var. *pyrifolia*	NC	2.4	0.1
Acacia spondylophylla	=SGD036-01	0.5	0.5
Acacia trudgeniana	=SGD037-03	0.6	0.1
Afrohybanthus aurantiacus	=SGD050-03	0.3	0.1
Aristida ?holathera var. *holathera*	NC	0.2	0.1
Atalaya hemiglauca	SGD070-12	2.1	0.1
Corymbia hamersleyana	SGD070-10	5.2	1.5
Cymbopogon ambiguus	NC	0.4	0.1
Dampiera candicans	=SGD028-04	0.3	0.1
Dolichocarpa crouchiana	=SGD036-03	0.1	0.1
Eriachne mucronata	SGD070-06	0.3	0.5
Eriachne pulchella subsp. *pulchella*	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	SGD070-02	3.4	3
Euphorbia careyi	SGD070-14	0.2	0.1
Gomphrena sp.	NC	0.1	0.1
Gossypium australe	SGD070-13	0.8	0.1
Grevillea wickhamii ? subsp.	SGD070-03	2.1	1.5
Hakea lorea subsp. *lorea*	NC	2.4	0.1
Neurachne muelleri	NC	0.3	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus fusiformis	SGD070-09	0.2	0.1
Ptilotus sp.	=SGD028-03	0.3	0.1
Senna glutinosa subsp. *glutinosa*	SGD070-04	0.9	0.1
Sida sp. Excedentifolia (J.L. Egan 1925)	SGD070-11	0.3	0.1
Stackhousia sp.	SGD070-08	0.1	0.1
Tribulus suberosus	NC	0.3	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.3	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Triodia ?epactia	SGD070-07	0.4	8
Triodia vanleeuwenii	SGD070-05	0.2	10

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD071	14-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	712928	mE	
Northing	7505721	mS	
Site Characteristics			
Landform	Drainage - Flowline		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Rare		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia pyrifolia* var. *pyrifolia*, *Eremophila longifolia*, and *Gossypium robinsonii* tall shrubland over **Cenchrus ciliaris* and **Cenchrus setiger* tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	SGD071-05	0.5	0.1
Acacia pyrifolia var. *pyrifolia*	SGD071-06	3.7	7
Arivela viscosa	NC	0.4	0.1
Atalaya hemiglauca	SGD071-04	3.4	0.1
Boerhavia coccinea	NC	0.2	0.1
Capparis spinosa subsp. *nummularia*	=OppJCOR-04-01	0.4	0.1
**Cenchrus ciliaris*	NC	0.4	32
**Cenchrus setiger*	NC	0.5	2
Clerodendrum floribundum var. *angustifolium*	SGD071-03	2.7	0.1
Corymbia hamersleyana	NC	3.9	0.1
Cucumis variabilis	NC	0.6	0.1
Eremophila longifolia	SGD071-01	2.8	3
Euphorbia ?trigonosperma	=SGD050-12	0.2	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.5	0.1
Gossypium robinsonii	NC	2.8	1.5
Indigofera monophylla	NC	0.2	0.1
Jasminum didymum subsp. *lineare*	SGD071-08	0.6	0.1
Melhania oblongifolia	SGD071-10	0.2	0.1
Notoleptopus decaisnei	SG071-07	0.3	0.1
Pentalepis trichodesmoides subsp. *trichodesmoides*	SGD071-02	1.2	0.1
Pterocaulon sphacelatum	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.5	0.1
Salsola australis	NC	0.4	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.9	0.1
**Setaria verticillata*	NC	0.2	0.1
Solanum ?phlomoides	NC	0.2	0.1
Stylobasium spathulatum	SGD071-09	2.3	0.1
Stylobasium spathulatum	NC	3.7	0.5
Tephrosia densa	=SGDr004-10	0.3	0.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD072	14-03-25	
Dimensions	25 m x 100 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	712115	mE	
Northing	7503793	mS	
Site Characteristics			
Landform	Drainage - Flowline		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Poor		
Disturbance Type	Weed invasion		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Rare		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus victrix* low open woodland over *Acacia pyrifolia* var. *pyrifolia*, *Gossypium robinsonii*, and *Acacia tumida* var. *pilbarensis* open shrubland over *Indigofera monophylla* low scattered shrubs over **Cenchrus ciliaris*, *Enneapogon lindleyanus*, and *Eriachne mucronata* tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pyrifolia var. *pyrifolia*	=SGD071-06	2.8	4
Acacia tumida var. *pilbarensis*	=SGD050-10	3.1	2
Amaranthus undulatus	SGD072-04	0.3	0.1
Androcalva luteiflora	=SGD050-11	0.3	0.1
Arivela viscosa	NC	0.3	0.1
Atalaya hemiglauca	=SGD071-01	2.1	0.1
Atalaya hemiglauca	=SGD071-04	2.3	0.1
Boerhavia coccinea	NC	0.2	0.1
Capparis spinosa subsp. *nummularia*	=OppJCOR-04-01	1.3	0.1
**Cenchrus ciliaris*	NC	0.6	35
Corchorus incanus subsp. *lithophilus*	SGD072-07	0.7	0.1
Cucumis variabilis	NC	1.8	0.1
Cymbopogon ambiguus	NC	0.6	0.1
Duperreya commixta	NC	0.9	0.1
Enneapogon lindleyanus	SGD072-02	0.3	2
Eriachne mucronata	SGD072-05	0.3	1
Eucalyptus victrix	SGD072-10	7.2	3
Euphorbia ?trigonosperma	=SGD050-12	0.2	0.1
Euphorbia careyi	=OppJCOR-04-02	0.1	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.7	0.1
Gomphrena sp.	NC	0.1	0.1
Gossypium robinsonii	NC	3.6	3
Grevillea wickhamii ? subsp.	=SGD026-13	2.2	0.5
Indigofera monophylla	SGD072-06	0.6	1
Notoleptopus decaisnei	=SGD071-05	0.3	0.1
Polycarpaea ?longiflora	SGD072-09	0.1	0.1
Salsola australis	NC	0.4	0.1
Santalum lanceolatum	SGD072-01	1.8	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.6	0.1
Sida sp.	NC	0.1	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Tephrosia densa	=SGDr004-10	0.3	0.1
Triodia pungens	SGD072-03	0.5	0.5
Triumfetta maconochieana	SGD072-08	0.4	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD072B	20-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	712540	mE	
Northing	7505337	mS	
Site Characteristics			
Landform	Drainage - Flowline		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Poor		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Dark brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Rare		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* and *Eucalyptus ?victrix* open woodland over *Acacia tumida* var. pilbarensis, *Acacia pyrifolia* var. *pyrifolia*, *Gossypium robinsonii*, *Atalaya hemiglauca*, *Santalum lanceolatum*, *Grevillea wickhamii* subsp. *hispidula*, and *Petalostylis labicheoides* tall open scrub over **Cenchrus ciliaris* tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
**Aerva javanica*	NC	0.5	0.5
?Abutilon sp.	=SGD053-06	0.4	0.1
Abutilon ? sp. Dioicum (A.A. Mitchell PRP 1618)	=SGD056-10	1.8	0.1
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	SGD072B-02	1.1	0.1
Acacia bivenosa	NC	1.4	0.1
Acacia pyrifolia var. *pyrifolia*	NC	2.3	7
Acacia tumida var. *pilbarensis*	NC	8	20
Atalaya hemiglauca	=SGD043-04	5	3
Boerhavia coccinea	NC	0.1	0.1
Capparis spinosa subsp. *nummularia*	NC	0.5	0.1
**Cenchrus ciliaris*	NC	0.4	60
Corymbia hamersleyana	NC	10	5
Cucumis variabilis	NC	0.9	0.1
Duperreya commixta	NC	1.5	0.1
Enneapogon caerulescens	NC	0.3	0.1
Eucalyptus ?victrix	SGD072B-01	15	3
Euphorbia tannensis subsp. *eremophila*	NC	0.6	0.1
Gossypium robinsonii	NC	4	6
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	3	2.5
Jasminum didymum subsp. *lineare*	NC	4	0.1
Nellica maderaspatensis	NC	0.6	0.1
Petalostylis labicheoides	NC	2.5	2
Ptilotus obovatus var. *obovatus*	NC	0.4	0.1
Rhagodia eremaea	NC	1.3	0.5
Rhynchosia minima	NC	0.3	0.1
Santalum lanceolatum	NC	2.1	2.5
Stylobasium spathulatum	NC	1.9	0.5
Trichodesma zeylanicum var. *zeylanicum*	NC	1.3	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD073	14-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	712000	mE	
Northing	7503457	mS	
Site Characteristics			
Landform	Incline - Lower Slope		
Slope	Steep (46-75º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Senna glutinosa* subsp. *glutinosa* scattered shrubs over *Acacia spondylophylla* low scattered shrubs over *Triodia wiseana* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	=SGD037-07	0.4	0.1
Acacia spondylophylla	=SGD036-01	0.5	1.5
Capparis spinosa subsp. *nummularia*	=OppJCOR-04-01	0.9	0.1
Corymbia hamersleyana	SGD073-05	4.1	0.5
Dodonaea petiolaris	SGD073-02	0.4	0.1
Dolichocarpa crouchiana	=SGD036-03	0.1	0.1
Eriachne mucronata	=SGD070-06	0.3	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	SGD073-01	4.8	2.5
Euphorbia tannensis subsp. *eremophila*	NC	0.4	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	0.5	0.1
Hakea chordophylla	=SGD026-10	2.3	0.5
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Ptilotus sp.	=SGD028-03	0.3	0.1
Salsola australis	NC	0.3	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.8	0.1
Senna glutinosa subsp. *glutinosa*	=SGD048-02	1.8	1.5
Sida sp. Excedentifolia (J.L. Egan 1925)	SGD073-06	0.2	0.1
Solanum cleistogamum	SGD073-04	0.1	0.1
Tribulus suberosus	NC	0.8	0.1
Triodia wiseana	SGD073-03	0.4	43

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD074	15-03-25	
Dimensions	25 m x 100 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	711879	mE	
Northing	7502115	mS	
Site Characteristics			
Landform	Gorge		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Major (50-70%)		

Vegetation Description	*Eucalyptus victrix* low open woodland over *Acacia tumida* var. *pilbarensis* open shrubland over **Cenchrus ciliaris* and *Enneapogon caerulescens* open tussock grassland over *Triodia pungens* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	=SGD071-05	0.3	0.1
Acacia hilliana	=SGD026-04	0.3	0.1
Acacia maitlandii	=OppJCOR-02-01	2.4	0.1
Acacia monticola	=SGD050-13	1.8	0.1
Acacia tumida var. *pilbarensis*	=SGD050-10	2.8	2
Aristida ?holathera var. *holathera*	NC	0.3	0.1
Arivela viscosa	NC	0.3	0.1
Atalaya hemiglauca	SGD074-06	1.5	0.1
Brachychiton acuminatus	SGD074-05	0.4	0.1
**Cenchrus ciliaris*	NC	0.5	25
Corchorus incanus subsp. *lithophilus*	=SGD072-07	1.1	0.1
Corchorus sp.	=SGDr004-02	0.8	0.1
Cucumis variabilis	NC	0.4	0.1
Cymbopogon ambiguus	NC	0.4	0.1
Cynanchum floribundum	SGD074-07	0.3	0.1
Cyperus cunninghamii subsp. *cunninghamii*	SGD074-09	0.2	0.1
Dodonaea pachyneura	NC	1.8	0.1
Duperreya commixta	NC	1.3	0.1
Enneapogon caerulescens	NC	2	5
Enneapogon polyphyllus	NC	0.2	0.1
Eriachne mucronata	=SGD072-05	0.3	0.5
Eucalyptus victrix	SGD074-08	7.8	3
Eulalia aurea	SGD074-02	0.5	0.1
Euphorbia biconvexa	NC	0.2	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.3	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1
Flueggea virosa subsp. *melanthesoides*	SGD074-10	2.5	0.1
Gomphrena sp.	NC	0.1	0.1
Gossypium robinsonii	NC	3.2	5
Grevillea wickhamii ? subsp.	=SGD026-13	2.8	0.5

Taxon	Collection Code	Height (m)	Cover (%)
Indet. sp.	SGD074-04	0.2	0.1
Notoleptopus decaisnei	=SG071-07	0.4	0.1
Pterocaulon sphacelatum	NC	0.3	0.1
Ptilotus exaltatus	NC	0.5	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Rhynchosia bungarensis	SGD074-03	0.5	0.1
Santalum lanceolatum	=SGDr004-06	2.2	0.1
Senna glutinosa subsp. *glutinosa*	=SGD048-02	1.6	0.1
Senna venusta	=SGD050-05	0.4	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD031-03	0.2	0.1
Solanum cleistogamum	=SGD073-04	0.2	0.1
Tephrosia densa	=SGDr004-10	0.4	0.1
Themeda triandra	NC	0.5	0.5
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	0.1
Triodia pungens	SGD074-01	0.5	8

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD075	15-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	712515	mE	
Northing	7502074	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Eucalyptus gamophylla* low open woodland over *Acacia hilliana*, *Acacia spondylophylla*, and *Mirbelia viminalis* low shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	=SGD026-04	0.3	8
Acacia pruinocarpa	NC	1.2	0.1
Acacia spondylophylla	=SGD036-01	0.3	4
Eriachne lanata	SGD075-06	0.3	0.1
Eucalyptus gamophylla	SGD075-03	2.5	2
Eucalyptus leucophloia subsp. *leucophloia*	SGD075-02	3.8	1.5
Grevillea wickhamii ? subsp.	=SGD070-03	1.5	0.5
Mirbelia viminalis	=SGD030-02	0.4	2
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus sp.	=SGD028-03	0.3	0.1
Scaevola ?browniana	SGD075-05	0.2	0.1
Scaevola browniana subsp. *browniana*	=SGD026-07	0.3	0.1
Triodia vanleeuwenii	SGD075-01	0.3	20
Triodia wiseana	SGD075-04	0.4	3

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD076	15-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	713185	mE	
Northing	7501788	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Steep (46-75º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Grevillea wickhamii* ?subsp. scattered shrubs over *Indigofera monophylla* and *Trichodesma zeylanicum* var. *zeylanicum* low open shrubland over *Triodia brizoides* open hummock grassland over *Euphorbia careyi* very open herbland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	=SGD071-05	0.3	0.1
Acacia inaequilatera	SGD076-03	2.8	0.5
Acacia pruinocarpa	NC	0.6	0.1
Aristida ?holathera var. *holathera*	NC	0.5	0.1
Arivela viscosa	NC	0.4	0.1
Cullen pustulatum	SGD076-04	0.4	0.1
Cymbopogon ambiguus	NC	0.8	0.1
Dolichocarpa crouchiana	=SGD036-03	0.1	0.1
Eremophila longifolia	SGD076-01	0.7	0.1
Eucalyptus leucophloia subsp. *leucophloia*	SGD076-07	3.4	1.5
Euphorbia biconvexa	NC	0.3	0.1
Euphorbia careyi	=OppJCOR-04-01	0.2	2.5
Grevillea wickhamii ? subsp.	=SGD026-13	1.8	1
Indigofera monophylla	NC	0.3	3
Paspalidium tabulatum	SGD076-05	0.4	0.1
Pterocaulon sphacelatum	NC	0.2	0.1
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	0.1
Salsola australis	NC	0.4	0.1
Senna glutinosa subsp. *glutinosa*	=SGD048-02	0.4	0.1
Senna glutinosa subsp. *pruinosa*	NC	1.6	0.1
Senna venusta	=SGD050-05	0.3	0.1
Solanum cleistogamum	=SGD073-04	0.3	0.1
Streptoglossa decurrens	SGD076-08	0.1	0.1
Tribulus ?platypterus	SGD076-06	0.5	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	1
Triodia brizoides	SGD076-02	0.3	20

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD077	15-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	713402	mE	
Northing	7502566	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	South		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus gamophylla* tall open mallee over *Acacia spondylophylla* , *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	NC	0.4	3
Acacia spondylophylla	NC	0.5	6
Aristida holathera var. *holathera*	=SGD062	0.2	0.1
Corymbia hamersleyana	NC	2.2	0.5
Dampiera candicans	NC	0.1	0.1
Eucalyptus gamophylla	NC	4.3	4
Eucalyptus leucophloia subsp. *leucophloia*	NC	2.5	0.5
Goodenia ?triodiophila	SGD077-01	0.1	0.1
Goodenia stobbsiana	NC	0.1	0.1
Grevillea wickhamii ? subsp.	NC	1	0.1
Hakea chordophylla	NC	2.8	0.5
Ptilotus sp.	NC	0.1	0.1
Scaevola browniana subsp. *browniana*	DRopp06-01	0.2	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.2	0.1
Seringia exastia	=SGD062	0.3	0.5
Triodia vanleeuwenii	NC	0.2	25

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD078	15-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	714164	mE	
Northing	7501086	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		
Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Eucalyptus gamophylla* open mallee over *Acacia maitlandii* scattered shrubs over *Acacia hilliana* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* hummock grassland.		

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hamersleyensis	NC	2.5	0.1
Acacia hilliana	NC	0.2	2
Acacia maitlandii	NC	1.2	1.5
Acacia monticola	NC	1.4	0.1
Acacia pyrifolia var. *pyrifolia*	NC	0.4	0.1
Dampiera candicans	NC	0.1	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.1	0.1
Eucalyptus gamophylla	NC	1.3	2.5
Eucalyptus leucophloia subsp. *leucophloia*	NC	4	1.5
Euphorbia careyi	SGD078-04	0.1	0.1
Goodenia ?stobbsiana	=SGD060-04	0.1	0.1
Gossypium robinsonii	NC	1.1	0.1
Hakea chordophylla	=SGD041-06	2.1	0.5
Indigofera monophylla	NC	0.1	0.1
Jasminum didymum subsp. *lineare*	NC	0.4	0.1
Peripleura virgata	SGD078-03	0.1	0.1
Petalostylis labicheoides	NC	1.9	0.1
Ptilotus calostachyus	NC	0.6	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus fusiformis	NC	0.2	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.6	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.2	0.1
Triodia vanleeuwenii	SGD078-01	0.2	30
Triodia wiseana	SGD078-02	0.3	15
Triumfetta maconochieana	=SGD055-04	0.4	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD079	15-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	713993	mE	
Northing	7500947	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Eucalyptus gamophylla* low mallee over *Hakea chordophylla* and *Grevillea wickhamii* subsp. *hispidula* scattered tall shrubs over *Acacia hilliana* , *Acacia spondylophylla* , and *Seringia exastia* low shrubland over *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia hilliana	NC	0.2	15
Acacia spondylophylla	=SGD041-05	0.3	3
Corymbia hamersleyana	NC	2.2	0.5
Eucalyptus gamophylla	NC	1.9	11
Eucalyptus leucophloia subsp. *leucophloia*	NC	3	1.5
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	1.8	0.5
Hakea chordophylla	=SGD041-06	2.5	1.5
Scaevola browniana subsp. *browniana*	=SGD040-04	0.2	0.5
Senna glutinosa subsp. *glutinosa*	NC	0.5	0.1
Seringia exastia	SGD079-02	0.2	2
Triodia vanleeuwenii	SGD079-01	0.2	18

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD080	15-03-25	
Dimensions	25 m x 100 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	714950	mE	
Northing	7502274	mS	
Site Characteristics			
Landform	Valley floor and minor creek line		
Slope	Low (1-20º)		
Aspect	East		
Condition			
Vegetation Condition	Poor		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Gossypium robinsonii*, *Grevillea wickhamii*, *Acacia pyrifolia* var. *pyrifolia* tall open shrubland over *Senna artemisioides* subsp. *oligophylla*, and *Eremophila longifolia* open shrubland over *Tephrosia densa* low scattered shrubs over *Triodia ?epactia/pungens* open hummock grassland with **Cenchrus ciliaris* and *Enneapogon lindleyanus* open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon ? sp. Dioicum (A.A. Mitchell PRP 1618)	SGD080-18	0.5	0.1
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	NC	1.5	0.1
Acacia arida	SGD080-17	1.1	0.1
Acacia monticola	NC	1.7	0.1
Acacia pruinocarpa	NC	1.3	0.1
Acacia pyrifolia var. *pyrifolia*	NC	2.5	1
Aristida holathera var. *holathera*	SGD080-12	0.3	0.1
Arivela viscosa	NC	0.6	0.1
Atalaya hemiglauca	NC	2.3	0.1
Boerhavia coccinea	SGD080-05	0.1	0.1
**Cenchrus ciliaris*	NC	0.2	17
Corchorus incanus subsp. *lithophilus*	SGD080-08	0.6	0.1
Crotalaria medicaginea var. *neglecta*	SGD080-06	0.5	0.1
Cucumis variabilis	NC	0.4	0.1
Cynanchum floribundum	SGD080-21	0.2	0.1
Dolichocarpa crouchiana	SGD080-20	0.2	0.1
Dysphania rhadinostachya subsp. *rhadinostachya*	SGD080-19	0.2	0.1
Enneapogon lindleyanus	=SGD025-03	0.2	9
Enneapogon polyphyllus	=SGD032-09	0.2	0.1
Eragrostis eriopoda	SGD080-11	0.3	0.1
Eremophila longifolia	NC	1.7	2
Eriachne aristidea	=SGD029-03	0.2	0.1
Eriachne mucronata	=SGD035-08	0.3	0.1
Euphorbia biconvexa	SGD080-14	0.4	0.1
Euphorbia tannensis subsp. *eremophila*	SGD080-16	0.5	0.1
Gomphrena cunninghamii	NC	0.1	0.1
Gossypium robinsonii	NC	2.2	1.5
Grevillea wickhamii ? subsp.	NC	2.1	1
Hibiscus sturtii var. *campylochlamys*	SGD080-10	0.2	0.1
Indigofera monophylla	NC	0.4	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Jasminum didymum subsp. *lineare*	NC	1	0.1
Notoleptopus decaisnei	NC	0.2	0.1
Paspalidium clementii	SGD080-04	0.2	0.1
Pluchea dunlopii	SGD080-07	0.3	0.1
Polycarpaea sp.	NC	0.3	0.1
Pterocaulon sphacelatum	SGD080-02	0.2	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.7	0.5
Ptilotus sp.	NC	0.3	0.1
Santalum lanceolatum	NC	1.8	0.5
Senna artemisioides subsp. *oligophylla*	=SGDr064-02	1.4	2
Senna glutinosa subsp. *glutinosa*	NC	1.6	0.1
Solanum cleistogamum	SGD080-13	0.1	0.1
Solanum phlomoides	SGD080-15	0.3	0.1
Streptoglossa decurrens	NC	0.2	0.1
Stylobasium spathulatum	NC	1.2	0.1
Tephrosia densa	SGD080-03	0.9	1.5
Trichodesma zeylanicum var. *zeylanicum*	NC	0.5	0.1
Triodia ?epactia/pungens	SGD080-01	0.5	20
Triodia ?vanleeuwenii	NC	0.2	0.1
Zaleya galericulata subsp. *galericulata*	SGD080-09	0.1	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD081	15-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	715763	mE	
Northing	7502030	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Steep (46-75º)		
Aspect	South-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia maitlandii* scattered shrubs over *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia inaequilatera	NC	1.1	0.5
Acacia maitlandii	NC	1.8	1.5
Acacia pruinocarpa	NC	1.3	0.1
Aristida holathera var. *holathera*	=SGD044-03	0.2	0.1
Corymbia deserticola ? subsp. *deserticola*	SGD081-01	4	0.5
Corymbia hamersleyana	NC	3	0.1
Dampiera candicans	NC	0.2	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	7	3
Goodenia stobbsiana	NC	0.2	0.1
Grevillea wickhamii ? subsp.	NC	1.8	0.5
Hakea chordophylla	NC	2.5	0.5
Ptilotus calostachyus	NC	0.6	0.5
Ptilotus fusiformis	SGD081-02	0.2	0.1
Ptilotus sp.	=SGD051-05	0.2	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.9	0.1
Senna glutinosa subsp. *pruinosa*	NC	0.6	0.1
Solanum sp.	NC	0.2	0.1
Triodia vanleeuwenii	NC	0.2	27

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD082	16-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	716044	mE	
Northing	7501690	mS	
Site Characteristics			
Landform	Valley floor		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Poor		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia tumida* var. pilbarensis, *Grevillea wickhamii* ?subsp., and *Gossypium robinsonii* tall open shrubland over *Senna artemisioides* subsp. *oligophylla* scattered shrubs over *Triodia epactia* very open hummock grassland over **Cenchrus ciliaris* and *Enneapogon lindleyanus* open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon aff. sp. Dioicum (A.A. Mitchell PRP 1618)	=SGD080-18	0.2	0.1
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	NC	0.6	0.1
Acacia pyrifolia var. *pyrifolia*	NC	1.2	0.5
Acacia tumida var. *pilbarensis*	NC	3.5	6
Afrohybanthus aurantiacus	NC	0.5	0.1
Amaranthus cuspidifolius	SGD082-08	0.7	0.1
Aristida holathera var. *holathera*	=SGD080-12	0.2	0.1
Arivela viscosa	NC	0.2	0.1
Atalaya hemiglauca	NC	2.3	0.5
Boerhavia coccinea	=SGD080-05	0.1	0.1
**Cenchrus ciliaris*	NC	0.2	11
**Cenchrus setiger*	NC	0.2	0.5
Clerodendrum floribundum var. *angustifolium*	SGD082-01	0.7	0.1
Corchorus sp.	SGD082-11	0.2	0.1
Cucumis variabilis	NC	0.2	0.1
Cymbopogon ambiguus	NC	0.2	0.1
Duperreya commixta	NC	1.5	0.5
Enneapogon lindleyanus	=SGD025-03	0.2	1.5
Enneapogon polyphyllus	=SGD032-09	0.2	0.1
Eragrostis eriopoda	=SGD080-11	0.2	0.1
Eremophila longifolia	NC	1.7	0.5
Eulalia aurea	NC	0.3	0.1
Euphorbia biconvexa	=SGD080-14	0.6	0.1
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.5	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1
Gomphrena canescens subsp. *canescens*	SGD082-06	0.2	0.1
Goodenia stobbsiana	NC	0.1	0.1
Gossypium robinsonii	NC	2.1	1
Grevillea wickhamii ? subsp.	NC	4	1.5
Hibiscus sturtii var. *campylochlamys*	=SGD080-10	0.1	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Indigofera monophylla	NC	0.2	0.1
Jasminum didymum subsp. *lineare*	NC	1.5	0.1
Melhania oblongifolia	SGD082-05	0.3	0.1
Notoleptopus decaisnei	NC	0.2	0.1
Paspalidium clementii	=SGD080-04	0.2	0.1
Polycarpaea ?longiflora	SGD082-03	0.1	0.1
Polycarpaea longiflora	NC	0.2	0.1
Pterocaulon sphacelatum	=SGD080-02	0.2	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	0.5
Rhynchosia minima	NC	0.2	0.1
Santalum lanceolatum	NC	2.1	0.1
Senna artemisioides subsp. *oligophylla*	=SGDr064-02	1.5	1
Senna glutinosa subsp. *glutinosa*	NC	1.8	0.1
Senna notabilis	NC	0.2	0.1
**Setaria verticillata*	SGD082-07	0.2	0.1
Sida ? sp. L (A.M. Ashby 4202)	SGD082-10	0.2	0.1
Sida ? sp. spiciform panicles (E. Leyland s.n. 14/8/90)	SGD082-09	0.5	0.1
Solanum cleistogamum	=SGD080-13	0.1	0.1
Solanum phlomoides	=SGD080-15	0.6	0.1
Stylobasium spathulatum	NC	1.7	0.5
Tephrosia densa	=SGD080-03	0.7	0.5
Trachymene sp.	NC	0.6	0.1
Tribulus sp.	NC	0.2	0.1
Tribulus suberosus	NC	0.5	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	0.1
Triodia epactia	=SGDr065-01	0.4	9
Triodia wiseana	NC	0.3	0.1
Triumfetta maconochieana	SGD082-04	0.3	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD083	15-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	717024	mE	
Northing	7501241	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Grevillea wickhamii* ?subsp. open shrubland over *Acacia arida* and *Acacia spondylophylla* low open shrubland over *Triodia vanleeuwenii* and *Triodia* ?*epactia*/*pungens* open hummock grassland over *Eriachne lanata* scattered tussock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	=SGD040-01	0.4	5
Acacia hilliana	NC	0.2	0.1
Acacia pruinocarpa	NC	1.1	0.1
Acacia spondylophylla	=SGD041-05	0.4	0.1
Calytrix carinata	=SGD123-01	0.3	0.1
Corchorus lasiocarpus subsp. *lasiocarpus*	NC	0.3	0.1
Eriachne lanata	=SGD042-05	0.4	1.5
Eucalyptus gamophylla	NC	0.7	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	4	6
Goodenia ?stobbsiana	=SGD060-04	0.1	0.1
Goodenia triodiophila	=SGD058-04	0.2	0.1
Grevillea wickhamii ? subsp.	=SGD124-05	1.9	2.5
Hakea chordophylla	=SGD041-06	0.4	0.1
Ptilotus calostachyus	NC	0.3	0.1
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus fusiformis	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.2	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia ?epactia/pungens	SGD083-01	0.5	3
Triodia vanleeuwenii	SGD083-02	0.3	20

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD084	15-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	717220	mE	
Northing	7501141	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Dead branches, Fire scar		
Water Presence	No		
Soils			
Soil Type	Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* and *Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Gossypium robinsonii*, *Acacia tumida* var. *pilbarensis* tall shrubland over *Jasminum didymum* subsp. *lineare* scattered vines over *Triodia ?epactia/pungens* and *Triodia vanleeuwenii* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
?Abutilon sp.	=SGD053-06	0.3	0.1
Abutilon sp.	SGD084-04	0.8	0.1
Acacia monticola	NC	1.8	0.1
Acacia pruinocarpa	NC	0.3	0.1
Acacia pyrifolia var. *pyrifolia*	NC	1.5	0.5
Acacia tenuissima	=SGD042-07	1.5	0.1
Acacia tumida var. *pilbarensis*	NC	3	18
Arivela viscosa	NC	0.3	0.1
Atalaya hemiglauca	=SGD043-04	2.2	0.1
Corchorus crozophorifolius	NC	0.2	0.1
Corymbia hamersleyana	NC	3	1
Cucumis variabilis	NC	0.3	0.1
Cymbopogon ambiguus	NC	0.4	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Duperreya commixta	NC	0.2	0.1
Dysphania rhadinostachya subsp. *rhadinostachya*	SGD084-06	0.3	0.1
Enneapogon caerulescens	NC	0.4	0.1
Enneapogon polyphyllus	NC	0.2	0.1
Eriachne mucronata	NC	0.3	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	5	2
Euphorbia ?biconvexa	=SGD055-05	0.3	0.1
Euphorbia careyi	=SGD053-04	0.1	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.5	0.1
Gomphrena sp.	NC	0.4	0.1
Gossypium robinsonii	NC	2.2	4
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	0.9	0.1
Indigofera monophylla	NC	0.4	0.1
Jasminum didymum subsp. *lineare*	NC	2.5	1
Notoleptopus decaisnei	=SGD053-03	0.3	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Paspalidium tabulatum	=SGD059-03	0.1	0.1
Paspalidium tabulatum	SGD084-03	0.4	0.1
Polycarpaea sp.	NC	0.1	0.1
Ptilotus calostachyus	NC	0.2	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.2	0.1
Rhynchosia minima	NC	0.5	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.7	0.1
Senna notabilis	NC	0.2	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD121-05	0.2	0.1
Sida sp.	SGD084-07	0.4	0.1
Solanum ?phlomoides	NC	0.4	0.1
Solanum sp.	=SGD059-01	0.1	0.1
Streptoglossa decurrens	SGD084-05	0.3	0.1
Stylobasium spathulatum	NC	1.4	0.5
Tephrosia ?densa	=SGD053-05	0.4	0.1
Themeda triandra	NC	0.3	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia ?epactia/pungens	SGD084-01	0.4	35
Triodia vanleeuwenii	SGD084-02	0.2	1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD085	16-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	714368	mE	
Northing	7504225	mS	
Site Characteristics			
Landform	Gorge		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Boulders (>61 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Corymbia ferriticola* woodland over *Eucalyptus leucophloia* subsp. *leucophloia*, and *Ficus brachypoda* open woodland over *Acacia tumida* var. *pilbarensis*, *Dodonaea pachyneura*, *Grevillea wickhamii* subsp. *hispidula*, and *Gossypium robinsonii* tall shrubland *Triodia* ?*epactia*/*pungens* very open hummock grassland over *Themeda triandra* and *Eriachne mucronata* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon ? sp. Dioicum (A.A. Mitchell PRP 1618)	=SGD056-10	0.8	0.1
Acacia pyrifolia var. *pyrifolia*	NC	2.3	0.1
Acacia tumida var. *pilbarensis*	NC	4	9
Afrohybanthus aurantiacus	NC	0.3	0.1
Atalaya hemiglauca	=SGD043-04	3	0.1
**Cenchrus ciliaris*	NC	0.4	0.1
Clerodendrum floribundum var. *angustifolium*	SGD085-02	2.6	0.5
Clerodendrum sp.	=SGD056-03	0.9	0.1
Corchorus incanus subsp. *lithophilus*	SGD085-06	1	0.1
Corchorus lasiocarpus subsp. *lasiocarpus*	NC	0.2	0.1
Corymbia ferriticola	=SGD056-07	12	8
Cucumis variabilis	NC	0.4	0.1
Cymbopogon ambiguus	NC	0.6	0.1
Dodonaea pachyneura	NC	1.4	2.5
Dodonaea pachyneura	SGD085-01	2.1	8
Duperreya commixta	NC	3	0.5
Eriachne mucronata	NC	0.3	2
Eucalyptus leucophloia subsp. *leucophloia*	NC	6	2
Euphorbia ?biconvexa	=SGD055-05	0.3	0.1
Ficus brachypoda	=AGopp07-01	8	4
Gomphrena cunninghamii	NC	0.1	0.1
Gossypium robinsonii	NC	4	2.5
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	4	6
Hibiscus sp. Mt Robinson (G. Byrne 3537)	=SGD056-02	0.1	0.1
Indigofera ?fractiflexa	SGD085-03	0.4	0.1
Isotropis atropurpurea	SGD085-09	1.1	0.1
Neurachne muelleri	NC	0.3	0.5
Paspalidium tabulatum	=SGD059-03	0.2	0.1
Pterocaulon sp.	SGD056-09	0.4	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Santalum lanceolatum	NC	2.2	0.1
Santalum spicatum	NC	2.5	0.1
Senna glutinosa subsp. *glutinosa*	NC	0.8	0.1
Senna venusta	=SGD056-12	1.3	0.1
Sida sp.	=SGD084-07	0.3	0.1
Solanum phlomoides	SGD085-05	0.4	0.1
Solanum sp.	=SGD059-01	0.3	0.1
Stylobasium spathulatum	NC	1.6	0.5
Tephrosia ?densa	=SGD053-05	0.6	0.1
Tephrosia ?densa	SGD085-07	0.7	0.1
Themeda triandra	NC	0.4	7
Triodia ?epactia/pungens	SGD085-04	0.5	8
Triumfetta maconochieana	=SGD055-04	0.8	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD086	16-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	715580	mE	
Northing	7505200	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Senna glutinosa* subsp. *pruinosa* and *Senna glutinosa* subsp. *glutinosa* open shrubland over *Dolichocarpa crouchiana* and *Acacia bivenosa* low scattered shrubs over *Triodia brizoides* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	0.5	2.5
Acacia pyrifolia var. *pyrifolia*	NC	0.2	0.1
Acacia synchronicia	NC	0.3	0.1
Aristida contorta	=SGD119-02	0.3	0.1
Arivela viscosa	NC	0.1	0.1
Bonamia erecta	=SGDr020-03	0.2	0.1
Dampiera candicans	NC	0.2	0.1
Dolichocarpa crouchiana	SGD086-03	0.1	1
Eriachne aristidea	SGD086-06	0.2	0.1
Eriachne pulchella subsp. *dominii*	NC	0.1	0.1
Euphorbia careyi	SGD086-07	0.1	0.1
Gomphrena sp.	NC	0.2	0.1
Goodenia sp.	NC	0.1	0.1
Hibiscus coatesii	SGD086-04	0.1	0.1
Portulaca oleracea	NC	0.1	0.1
Ptilotus calostachyus	NC	0.3	0.1
Ptilotus clementii	SGD086-05	0.3	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus fusiformis	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.3	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.3	1
Senna glutinosa subsp. *pruinosa*	SGD086-02	1	2
Sida sp.	NC	0.1	0.1
Solanum sp.	=SGD059-01	0.1	0.1
Tribulus suberosus	NC	0.4	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia brizoides	SGD086-01	0.2	20

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD087	20-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	716725	mE	
Northing	7505674	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Silty Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus gamophylla* low open mallee over *Triodia wiseana* and *Triodia vanleeuwenii* open hummock grassland over *Ptilotus calostachyus* scattered herbs.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adsurgens	SGD087-03	0.7	0.1
Acacia trudgeniana	SGD087-01	1.2	0.1
**Cenchrus ciliaris*	NC	0.2	0.1
Eucalyptus gamophylla	NC	3	5
Euploca pachyphylla	SGD087-02	0.1	0.1
Grevillea wickhamii ? subsp.	NC	1	0.1
Jasminum didymum subsp. *lineare*	NC	0.7	0.1
Paspalidium clementii	SGD087-04	0.1	0.1
Ptilotus astrolasius	NC	0.2	0.1
Ptilotus calostachyus	NC	0.6	1.5
Ptilotus exaltatus	NC	0.3	0.1
Senna glutinosa subsp. *pruinosa*	NC	1.2	0.1
Senna notabilis	NC	0.4	0.1
Sida ? sp. spiciform panicles (E. Leyland s.n. 14/8/90)	=SGD082-09	0.3	0.1
Sida sp.	NC	0.05	0.1
Triodia vanleeuwenii	NC	0.3	8
Triodia wiseana	NC	0.6	20

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD088	20-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	718137	mE	
Northing	7504463	mS	
Site Characteristics			
Landform	Floodplain		
Slope	Low (1-20º)		
Aspect	West		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Acacia pyrifolia* var. *pyrifolia*, *Grevillea wickhamii* ?subsp., and *Atalaya hemiglauca* tall shrubland over *Senna artemisioides* subsp. *oligophylla* open shrubland over *Ptilotus obovatus* var. *obovatus* low scattered shrubs over **Cenchrus ciliaris* tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pruinocarpa	NC	2.3	0.5
Acacia pyrifolia var. *pyrifolia*	NC	2.3	4
Acacia tumida var. *pilbarensis*	NC	3	0.5
Afrohybanthus aurantiacus	NC	0.4	0.1
Aristida contorta	NC	0.2	0.1
Arivela viscosa	NC	0.3	0.1
Atalaya hemiglauca	NC	2.9	3
Boerhavia coccinea	=SGD080-05	0.1	0.1
**Cenchrus ciliaris*	NC	0.3	40
**Cenchrus setiger*	NC	0.6	0.5
Corchorus incanus subsp. *lithophilus*	=SGD080-08	0.2	0.1
Corymbia hamersleyana	NC	8.5	1.5
Dodonaea petiolaris	=SGD114-05	3	0.1
Duperreya commixta	NC	1.5	0.1
Enneapogon lindleyanus	=SGD025-03	0.2	0.1
Eriachne mucronata	=SGD035-08	0.2	0.1
Euphorbia australis var. *subtomentosa*	SGD088-02	0.1	0.1
Euphorbia biconvexa	=SGD080-14	0.5	0.1
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.4	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1
Gossypium robinsonii	NC	1.6	0.1
Grevillea wickhamii ? subsp.	NC	2.2	3
Indigofera monophylla	NC	0.3	0.1
Indigofera monophylla	SGD088-01	0.5	0.1
Notoleptopus decaisnei	NC	0.1	0.1
Polycarpaea longiflora	=SGD032-04	0.2	0.1
Ptilotus exaltatus	NC	0.4	0.1
Ptilotus obovatus var. *obovatus*	NC	0.7	1.5
Ptilotus obovatus var. *obovatus*	SGD088-04	0.8	0.1
Rhagodia eremaea	NC	1.2	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Salsola australis	NC	0.4	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.1	3
Tephrosia densa	=SGD044-09	0.2	0.1
Tribulus suberosus	NC	0.6	0.1
Trigastrotheca molluginea	SGD088-05	0.1	0.1
Triodia pungens	SGD088-03	0.5	0.1
Waltheria indica	NC	0.2	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD089	16-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	719198	mE	
Northing	7504349	mS	
Site Characteristics			
Landform	Incline - Footslope		
Slope	Moderately inclined (21-45º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Grevillea wickhamii* ?subsp. and *Acacia bivenosa* open shrubland over *Acacia spondylophylla* scattered low shrubs over *Triodia wiseana* and *Triodia vanleeuwenii* open hummock grassland with *Ptilotus clementii* scattered herbs.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	1.5	2
Acacia pyrifolia var. *pyrifolia*	NC	0.4	0.1
Acacia spondylophylla	NC	0.7	1.5
Aristida holathera var. *holathera*	=SGD044-03	0.2	0.1
Corchorus sp.	NC	0.3	0.1
Dolichocarpa crouchiana	NC	0.1	0.5
Enneapogon caerulescens	SGD089-04	0.1	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	4	1
Euphorbia careyi	SGD089-03	0.2	0.1
Euploca pachyphylla	NC	0.1	0.1
Fimbristylis simulans	DRopp07-01	0.05	0.1
Goodenia microptera	SGD089-02	0.1	0.1
Goodenia stobbsiana	NC	0.1	0.1
Grevillea wickhamii ? subsp.	NC	1.9	1.5
Hakea lorea subsp. *lorea*	NC	0.5	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus clementii	NC	0.2	1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Ptilotus rotundifolius	NC	1	0.1
Ptilotus sp.	NC	0.1	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.3	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	1.2	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.2	0.1
Senna glutinosa subsp. *pruinosa*	NC	1.2	0.5
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	SGD089-01	0.2	0.1
Tribulus sp.	NC	0.05	0.1
Tribulus suberosus	NC	0.4	0.1
Trigastrotheca molluginea	NC	0.1	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Triodia vanleeuwenii	NC	0.2	7
Triodia wiseana	NC	0.2	12

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD090	16-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	719540	mE	
Northing	7504567	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion, Cattle grazing		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Grevillea wickhamii* ?subsp., *Acacia pachyacra* and *Acacia sericophylla* tall open shrubland over *Triodia pungens* hummock grassland over *Ptilotus* sp. scattered herbs.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia inaequilatera	NC	1.5	0.1
Acacia pachyacra	=SGD106-05	2.3	1.5
Acacia sericophylla	=SGD107-12	3.1	0.5
Afrohybanthus aurantiacus	NC	0.3	0.1
Aristida ?holathera var. *holathera*	NC	0.4	0.5
Corchorus sp.	SGD090-01	0.2	0.1
Dicrastylis cordifolia	=SGD107-10	0.3	0.1
Euploca pachyphylla	=SGD0107	0.1	0.1
Grevillea wickhamii ? subsp.	=SGD107-02	2.1	6
Indigofera monophylla	NC	0.1	0.1
Jasminum didymum subsp. *lineare*	SGD090-02	0.3	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus sp.	=SGD028-03	0.4	1.5
Senna glutinosa subsp. *glutinosa*	NC	1.8	0.1
Solanum ?phlomoides	NC	0.3	0.1
Tribulus ?macrocarpus	=SGD107-03	0.1	0.1
Trigastrotheca molluginea	=SGD107-01	0.1	0.1
Triodia pungens	SGD090-03	0.5	35
Triumfetta maconochieana	=SGD072-08	0.5	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD091	15-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	718670	mE	
Northing	7499660	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* scattered low trees over *Eucalyptus gamophylla* open mallee over *Hakea chordophylla* scattered tall shrubs over *Acacia maitlandii* and *Acacia arida* open shrubland over *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	=SGD040-01	0.6	6
Acacia arida	SGD091-02	1.5	1
Acacia dictyophleba	=SGD061-02	0.4	0.1
Acacia maitlandii	NC	1.9	1
Acacia tenuissima	=SGD042-07	0.9	0.1
Aristida contorta	NC	0.1	0.1
Dampiera candicans	NC	0.2	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Eucalyptus gamophylla	NC	1.8	4
Eucalyptus leucophloia subsp. *leucophloia*	NC	4	1.5
Goodenia ?stobbsiana	=SGD060-04	0.1	0.1
Goodenia triodiophila	=SGD058-04	0.2	0.1
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	1.1	0.5
Hakea chordophylla	=SGD041-06	2.1	1.5
Ptilotus calostachyus	NC	0.4	0.1
Solanum ?phlomoides	NC	0.8	0.1
Triodia ?vanleeuwenii	SGD091-01	0.4	12

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD093	17-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	720609	mE	
Northing	7499824	mS	
Site Characteristics			
Landform	Floodplain		
Slope	Low (1-20º)		
Aspect	South-east		
Condition			
Vegetation Condition	Poor		
Disturbance Type	Weed invasion, Mining exploration, Road access tracks		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia inaequilatera* and *Acacia pyrifolia* var. *pyrifolia* tall open shrubland over *Senna artemisioides* subsp. *oligophylla* scattered shrubs over *Corchorus* aff. *tectus* scattered low shrubs over **Cenchrus ciliaris* open tussock grassland *Triodia pungens* very open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon lepidum	SGD093-09	0.5	0.1
Abutilon otocarpum	SGD093-05	0.5	0.1
Acacia inaequilatera	NC	3.3	3
Acacia pyrifolia var. *pyrifolia*	NC	2.3	0.5
Afrohybanthus aurantiacus	NC	0.3	0.1
Aristida holathera var. *holathera*	=SGD098-05	0.5	0.1
Arivela viscosa	NC	0.3	0.1
Atalaya hemiglauca	NC	3.5	0.5
Boerhavia coccinea	=SGD080-05	0.1	0.1
**Cenchrus ciliaris*	NC	0.5	26
Corchorus aff. tectus	SGD093-08	0.4	1
Crotalaria medicaginea var. *neglecta*	=SGD080-06	0.2	0.1
Cucumis variabilis	NC	1	0.1
Euphorbia biconvexa	=SGD080-14	0.4	0.1
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.5	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Gomphrena affinis subsp. *pilbarensis*	=SGD105-06	0.2	0.1
Gomphrena cunninghamii	NC	0.1	0.1
Goodenia microptera	=SGD098-04	0.1	0.1
Gossypium robinsonii	NC	0.9	0.1
Grevillea wickhamii ? subsp.	=SGD047-01	3.1	0.5
Hibiscus sturtii var. *campylochlamys*	=SGD080-10	0.3	0.1
Indigofera colutea	NC	0.1	0.1
Indigofera monophylla	NC	0.3	0.1
Melhania oblongifolia	SGD093-06	0.2	0.1
Nellica maderaspatensis	NC	0.1	0.1
Notoleptopus decaisnei	NC	0.2	0.1
Polymeria ?ambigua	SGD093-04	0.1	0.1
Pterocaulon sphacelatum	=SGD080-02	0.3	0.1
Ptilotus astrolasius	NC	0.2	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.6	0.1
Rhynchosia minima	NC	0.2	0.1
Salsola australis	NC	0.3	0.1
Santalum lanceolatum	NC	1.9	0.5
Senna artemisioides subsp. *oligophylla*	SGD093-02	1.6	1.5
Senna notabilis	NC	0.4	0.1
Sida ? sp. L (A.M. Ashby 4202)	SGD093-03	0.1	0.1
Sida ? sp. spiciform panicles (E. Leyland s.n. 14/8/90)	=SGD082-09	0.4	0.1
Solanum sp.	NC	0.2	0.1
Streptoglossa decurrens	NC	0.3	0.1
Swainsona formosa	NC	0.4	0.1
Tephrosia densa	NC	0.8	0.5
Trianthema pilosum	SGD093-07	0.05	0.1
Tribulus macrocarpus	=SGD98-02	0.2	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia pungens	SGD093-01	0.4	5
Waltheria indica	NC	0.2	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD094	16-03-25	
Dimensions	25 m x 100 m		
Described by	Owen Raynor		
Location (GDA) Zone 50K			
Easting	720750	mE	
Northing	7499199	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar, Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia tumida* var. pilbarensis, *Acacia inaequilatera* , *Grevillea wickhamii* ?subsp. tall open shrubland over **Cenchrus ciliaris* open tussock grassland over *Triodia pungens* very open hummock grassland over *Ptilotus exaltatus* scattered herbland.

Taxon	Collection Code	Height (m)	Cover (%)
?Goodenia stobbsiana	SGD094-02	0.2	0.1
Abutilon sp.	=SGD071-05	0.2	0.1
Acacia inaequilatera	SGD094-07	3.3	2
Acacia pachyacra	SGD094-06	1.8	0.1
Acacia tumida var. *pilbarensis*	=SGD050-10	2.3	4
Afrohybanthus aurantiacus	NC	0.4	0.1
Aristida ?holathera var. *holathera*	NC	0.4	0.1
Arivela viscosa	NC	0.1	0.1
Atalaya hemiglauca	=SGD071-04	2.5	0.1
Boerhavia coccinea	NC	0.2	0.1
**Cenchrus ciliaris*	NC	0.5	25
Codonocarpus cotinifolius	SGD094-09	0.7	0.1
Corchorus incanus subsp. *lithophilus*	=SGD072-07	0.6	0.1
Corymbia hamersleyana	=SGD050-08	3.7	0.5
Cucumis variabilis	NC	0.3	0.1
Cymbopogon ambiguus	NC	0.9	0.1
Dampiera candicans	=SGD028-04	0.4	0.1
Dolichocarpa crouchiana	=SGD036-03	0.2	0.1
Duperreya commixta	NC	3.1	0.1
Enneapogon caerulescens	NC	0.3	0.1
Eriachne mucronata	=SGD036-07	0.4	0.1
Eriachne pulchella subsp. *pulchella*	SGD094-03	0.2	0.1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD076-07	3.1	0.5
Euphorbia ?trigonosperma	=SGD050-12	0.4	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Gomphrena sp.	NC	0.1	0.1
Gossypium robinsonii	NC	1.1	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	2.8	1
Indigofera monophylla	NC	0.3	0.5
Indigofera monophylla	SGD094-04	0.3	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Neurachne muelleri	NC	0.4	0.1
Notoleptopus decaisnei	=SGD071-05	0.3	0.1
Paspalidium clementii	=SGD050-06	0.2	0.1
Pterocaulon sphacelatum	NC	0.3	0.1
Ptilotus clementii	SGD094-08	0.4	0.1
Ptilotus exaltatus	NC	0.4	1
Ptilotus obovatus var. *obovatus*	NC	0.6	0.1
Ptilotus sp.	NC	0.2	0.1
Ptilotus sp.	=SGD028-03	0.5	0.1
Rhagodia eremaea	SGD094-01	1.2	0.1
Santalum lanceolatum	=SGDr004-06	2.3	0.1
Senna glutinosa subsp. *glutinosa*	=SGD048-02	0.6	0.5
Senna venusta	=SGD050-05	0.2	0.1
Solanum ?phlomoides	NC	1.2	0.1
Streptoglossa decurrens	NC	0.4	0.1
Stylobasium spathulatum	NC	1.1	0.1
Tephrosia densa	=SGDr004-10	0.3	0.1
Tribulus ?hirsutus	NC	0.1	0.1
Tribulus suberosus	NC	0.3	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	0.1
Trigastrotheca molluginea	SGD094-10	0.2	0.1
Triodia pungens	SGD094-05	0.5	9

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD095	17-03-25	
Dimensions	20 m x 125 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	721668	mE	
Northing	7499855	mS	
Site Characteristics			
Landform	Gully		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches, Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Corymbia hamersleyana* low open woodland over *Acacia tumida* var. *pilbarensis*, *Acacia monticola*, *Grevillea wickhamii* ?subsp., and *Gossypium robinsonii* tall shrubland over *Triodia pungens* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.1	0.1
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	NC	1.1	0.1
Acacia arida	SGD095-07	1.3	0.1
Acacia monticola	NC	2.7	2
Acacia pyrifolia var. *pyrifolia*	NC	0.5	0.1
Acacia spondylophylla	NC	0.7	0.5
Acacia tumida var. *pilbarensis*	NC	2.8	10
Afrohybanthus aurantiacus	NC	0.3	0.1
Aristida holathera var. *holathera*	=SGD098-05	0.2	0.1
Aristida inaequiglumis	=SGD025-06	0.3	0.1
Arivela viscosa	NC	0.05	0.1
Atalaya hemiglauca	NC	3	0.5
**Cenchrus ciliaris*	NC	0.4	0.1
Clerodendrum ?tomentosum var. *lanceolatum*	=SGD032-06	1.3	0.1
Corchorus ?tectus	SGD095-09	0.3	0.1
Corymbia hamersleyana	NC	6.5	5
Cucumis variabilis	NC	0.8	0.1
Cymbopogon ambiguus	NC	0.3	0.1
Dampiera candicans	NC	0.1	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Duperreya commixta	NC	1.1	0.1
Enneapogon lindleyanus	=SGD025-03	0.2	0.1
Enneapogon polyphyllus	NC	0.2	0.1
Eremophila longifolia	NC	1.3	0.5
Eriachne mucronata	=SGD035-08	0.2	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	4.5	0.5
Euphorbia careyi	SGD095-05	0.1	0.1
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.3	0.1
Euploca glabella	SGD095-06	0.1	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Gomphrena affinis subsp. *pilbarensis*	=SGD105-06	0.2	0.1
Goodenia stobbsiana	NC	0.1	0.1
Gossypium robinsonii	NC	2.5	1
Grevillea wickhamii ? subsp.	NC	3.2	1.5
Indigofera monophylla	SGD095-03	0.5	0.1
Jasminum didymum subsp. *lineare*	NC	0.3	0.1
Neurachne muelleri	NC	0.3	0.1
Notoleptopus decaisnei	NC	0.1	0.1
Paspalidium clementii	=SGD032-03	0.1	0.1
Polycarpaea longiflora	=SGD032-04	0.1	0.1
Pterocaulon sphacelatum	=SGD080-02	0.2	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus clementii	NC	0.3	0.1
Ptilotus exaltatus	NC	0.5	0.1
Ptilotus fusiformis	=SGD081-02	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.8	0.1
Rhynchosia minima	NC	0.2	0.1
Salsola australis	NC	0.4	0.1
Senna artemisioides subsp. *oligophylla*	SGD095-03	1.5	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.1	0.1
Senna notabilis	NC	0.3	0.1
Sida ? sp. spiciform panicles (E. Leyland s.n. 14/8/90)	=SGD082-09	0.2	0.1
Solanum perarmatum	SGD095-08	0.1	0.1
Solanum phlomoides	=SGD047-07	0.6	0.1
Streptoglossa decurrens	NC	0.2	0.1
Stylobasium spathulatum	NC	0.9	0.1
Tephrosia arenicola	SGD095-02	1.4	0.5
Tephrosia densa	NC	0.8	0.5
Themeda triandra	NC	0.4	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.8	0.1
Triodia pungens	SGD095-01	0.6	15
Triumfetta maconochieana	SGD095-04	0.3	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD096	16-03-25	
Dimensions	50 m x 50 m		
Described by	Owen Raynor		
Location (GDA) Zone 50K			
Easting	721960	mE	
Northing	7499999	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Low (1-20º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar, Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Hakea chordophylla* scattered tall shrubs over *Acacia hilliana* and *Acacia spondylophylla* low open shrubland over *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	1.9	0.1
Acacia hilliana	=SGD026-04	0.3	2.5
Acacia sclerosperma subsp. *sclerosperma*	NC	0.5	0.1
Acacia spondylophylla	=SGD036-01	0.4	2
Dampiera candicans	=SGD028-04	0.4	0.1
Dolichocarpa crouchiana	=SGD036-03	0.1	0.1
Eucalyptus gamophylla	=SGD075-03	1.9	0.5
Eucalyptus leucophloia subsp. *leucophloia*	SGD096-02	3.3	1
?Goodenia stobbsiana	=SGD028-02	0.1	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	2.1	0.5
Hakea chordophylla	=SGD026-10	2.7	1
Mirbelia viminalis	=SGD030-02	0.4	0.1
Ptilotus sp.	=SGD028-03	0.4	0.5
Senna glutinosa subsp. *pruinosa*	NC	0.3	0.1
Triodia vanleeuwenii	SGD096-01	0.3	16

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD097	17-03-25	
Dimensions	25 m x 100 m		
Described by	Owen Raynor		
Location (GDA) Zone 50K			
Easting	722313	mE	
Northing	7499238	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Low (1-20º)		
Aspect	North-west		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Grevillea wickhamii* ?subsp. scattered tall shrubs over *Indigofera monophylla* scattered low shrubs over *Triodia pungens* open hummock grassland over *Trichodesma zeylanicum* var. *zeylanicum* scattered herbs.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	=SGD071-05	0.4	0.1
Acacia adoxa var. adoxa x Acacia spondylophylla	=SGD104-02	0.5	0.1
Acacia tumida var. *pilbarensis*	SGD097-05	5.1	0.5
Amphipogon ?sericeus	=SGD104-01	0.3	0.1
Aristida ?holathera var. *holathera*	NC	0.5	0.1
Arivela viscosa	NC	0.5	0.1
Atalaya hemiglauca	=SGD071-04	2.5	0.1
Corchorus sp.	=SGDr004-02	0.3	0.1
Corymbia hamersleyana	=SGD050-08	5.4	0.5
Cucumis variabilis	NC	0.8	0.1
Cymbopogon ambiguus	NC	0.4	0.1
Cynanchum floribundum	SGD097-04	0.5	0.1
Cyperus sp.	NC	0.2	0.1
Dampiera candicans	=SGD028-04	0.4	0.1
Dolichocarpa crouchiana	SGD097-01	0.2	0.1
Enneapogon caerulescens	NC	0.4	0.1
Eriachne mucronata	=SGD036-07	0.4	0.1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD076-07	6	0.5
Euphorbia biconvexa	NC	0.5	0.5
Euphorbia careyi	=OppJCOR-04-01	0.2	0.1
Gomphrena sp.	NC	0.2	0.1
Gossypium australe	=SGDr004-04	2.2	0.1
Gossypium robinsonii	NC	1.8	0.5
Grevillea wickhamii ? subsp.	=SGD026-13	2.4	1.5
Hibiscus leptocladus	SGD097-03	0.3	0.1
Indigofera monophylla	NC	0.4	1
Petalostylis labicheoides	=SGDr004-01	1	0.1
Pluchea tetranthera	=SGD049-03	0.2	0.1
Polycarpaea ?longiflora	NC	0.3	0.1
Pterocaulon sphacelatum	NC	0.3	0.5

Taxon	Collection Code	Height (m)	Cover (%)
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.7	0.1
Ptilotus sp.	NC	0.2	0.1
Senna notabilis	NC	0.4	0.1
Senna venusta	=SGD050-05	2.2	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD031-03	0.6	0.1
Solanum cleistogamum	=SGD073-04	0.2	0.1
Solanum perarmatum	=SGD050-07	0.6	0.1
Streptoglossa decurrens	NC	0.3	0.5
Stylobasium spathulatum	NC	1	0.1
Tribulus suberosus	NC	0.4	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.7	1
Triodia pungens	SGD097-02	0.6	28
Triodia pungens	SGD097-06	0.3	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD098	16-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	720590	mE	
Northing	7500788	mS	
Site Characteristics			
Landform	Plain - Undulating		
Slope	Low (1-20º)		
Aspect	South-east		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus gamophylla* low open mallee over *Acacia bivenosa* and *Acacia ancistrocarpa* tall open shrubland over *Triodia basedowii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.1	0.1
Acacia ancistrocarpa	NC	2.9	2
Acacia bivenosa	NC	3.1	3
Acacia dictyophleba	NC	2.1	0.5
Acacia pachyacra	SGD098-07	1.6	0.5
Acacia synchronicia	NC	4	0.5
Afrohybanthus aurantiacus	NC	0.5	0.1
Afrohybanthus aurantiacus	NC	0.3	0.1
Amphipogon ?sericeus	SGD098-11	0.1	0.1
Aristida holathera var. *holathera*	SGD098-05	0.4	0.1
Aristida inaequiglumis	=SGD025-06	0.3	0.1
Bonamia erecta	=SGD044-04	0.2	0.1
**Cenchrus ciliaris*	NC	0.4	0.1
Corchorus aff. tectus	SGD098-10	0.2	0.1
Corchorus aff. tectus	SGD098-03	0.3	0.1
Cucumis variabilis	NC	0.5	0.1
Dicrastylis cordifolia	=SGD044-06	0.5	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Duperreya commixta	NC	2.1	0.1
Eragrostis eriopoda	NC	0.2	0.1
Eriachne aristidea	=SGD029-03	0.1	0.1
Eucalyptus gamophylla	NC	3.9	7
Euphorbia australis var. *hispidula*	SGD098-08	0.2	0.1
Euploca pachyphylla	SGD098-01	0.1	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Goodenia microptera	SGD098-04	0.3	0.1
Goodenia stobbsiana	NC	0.1	0.1
Gossypium robinsonii	NC	0.6	0.1
Grevillea wickhamii ? subsp.	NC	1.3	0.1
Hibiscus sp.	NC	0.3	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Indigofera monophylla	NC	0.1	0.1
Nellica maderaspatensis	NC	0.1	0.1
Ptilotus astrolasius	NC	0.2	0.1
Ptilotus calostachyus	NC	0.6	0.1
Ptilotus clementii	NC	0.2	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus fusiformis	=SGD081-02	0.2	0.1
Rhynchosia minima	NC	0.1	0.1
Scaevola parvifolia subsp. *pilbarae*	SGD098-12	0.2	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.8	0.1
Senna notabilis	NC	0.2	0.1
Sida ?platycalyx	SGD098-06	0.5	0.1
Sida sp.	NC	0.3	0.1
Solanum sp.	NC	0.1	0.1
Tribulus macrocarpus	NC	0.1	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia basedowii	SGD098-09	0.2	25

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD099	16-03-25	
Dimensions	50 m x 50 m		
Described by	Owen Raynor		
Location (GDA) Zone 50K			
Easting	721026	mE	
Northing	7500979	mS	
Site Characteristics			
Landform	Floodplain		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Negligible		
Abundance	Rare		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Triodia basedowii* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia arida	=SGD037-07	1.5	0.1
Acacia dictyophleba	SGD099-04	1	0.5
Acacia sericophylla	NC	2.1	0.1
Afrohybanthus aurantiacus	NC	0.3	0.1
Aristida ?holathera var. *holathera*	NC	0.4	0.1
Boerhavia coccinea	NC	0.1	0.1
**Cenchrus ciliaris*	NC	0.4	0.5
Codonocarpus cotinifolius	=SGD094	0.3	0.1
Corchorus tridens	NC	0.2	0.1
Corymbia hamersleyana	=SGD050-08	5.2	1.5
Dodonaea petiolaris	NC	0.6	0.1
Goodenia microptera	SGD099-02	0.2	0.1
Gossypium robinsonii	NC	2.1	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	2.1	1
Jasminum didymum subsp. *lineare*	NC	1.2	0.1
Ptilotus exaltatus	NC	0.4	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	0.1
Ptilotus polystachyus	NC	0.5	0.1
Ptilotus sp.	NC	0.5	0.1
Rhynchosia minima	NC	0.7	0.1
Senna artemisioides subsp. *oligophylla*	NC	1	0.1
Senna notabilis	NC	0.5	0.1
Sida fibulifera	NC	0.3	0.1
Stackhousia sp.	=Oppjcor02-02	0.3	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.8	0.1
Triodia basedowii	SGD099-03	0.5	6
Triodia basedowii	SGD099-01	0.6	25

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD100	16-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	720771	mE	
Northing	7503064	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	South-east		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Large rocks (21-60 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia bivenosa* open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* hummock grassland over *Ptilotus* sp. very open herbland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	1.5	2.5
Acacia pachyacra	=SGD106-05	1.2	0.1
Aristida ?holathera var. *holathera*	NC	0.2	0.1
Dampiera candicans	=SGD028-04	0.4	0.1
Dolichocarpa crouchiana	=SGD036-03	0.1	0.1
Eriachne mucronata	=SGD070-06	0.3	0.1
Eucalyptus leucophloia subsp. *leucophloia*	SGD100-03	4.2	4
Fimbristylis simulans	SGD100-04	0.1	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	2.2	5
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus fusiformis	=SGD070-09	0.1	0.1
Ptilotus sp.	NC	0.2	0.1
Ptilotus sp.	=SGD028-03	0.8	2.5
Solanum ?phlomoides	NC	0.5	0.1
Tribulus suberosus	NC	0.4	0.1
Triodia vanleeuwenii	SGD100-01	0.2	23
Triodia wiseana	SGD100-02	0.3	8

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD101	17-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	722699	mE	
Northing	7500670	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Low (1-20º)		
Aspect	East		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion, Rubbish/Litter, Mining exploration, Road access tracks		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia tumida* var. pilbarensis and *Acacia pyrifolia* var. *pyrifolia* tall shrubland over *Gossypium robinsonii*, *Grevillea wickhamii* ?subsp. *wickhamii*, *Senna artemisioides* subsp. *oligophylla*, and *Atalaya hemiglauca* shrubland over *Indigofera monophylla* low scattered shrubs over **Cenchrus ciliaris* and **Cenchrus setiger* open tussock grassland *Triodia pungens* scattered hummock grass.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pyrifolia var. *pyrifolia*	NC	2.1	1
Acacia tumida var. *pilbarensis*	NC	2.3	16
Afrohybanthus aurantiacus	NC	0.4	0.1
Aristida contorta	=SGD119-02	0.3	0.1
Arivela viscosa	NC	0.2	0.1
Atalaya hemiglauca	=SGD043-04	1.9	1
Boerhavia coccinea	NC	0.1	1
**Cenchrus ciliaris*	SGD101-02	0.3	10
**Cenchrus setiger*	SGD101-03	0.3	10
Corchorus incanus subsp. *lithophilus*	=SGD085-06	0.8	0.1
Cymbopogon ambiguus	NC	1.1	0.1
Enneapogon caerulescens	NC	0.4	0.1
Eriachne mucronata	NC	0.3	0.1
Eriachne pulchella subsp. *dominii*	NC	0.1	0.1
Euphorbia ?biconvexa	=SGD055-05	0.2	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.3	0.1
Euploca cunninghamii	SGD101-10	0.3	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Gomphrena cunninghamii	NC	0.1	0.1
Gossypium robinsonii	NC	1.8	5
Grevillea wickhamii ? subsp.	=SGD124-05	1.2	2
Indigofera monophylla	NC	0.2	1
Jasminum didymum subsp. *lineare*	NC	1.3	0.1
Nellica maderaspatensis	NC	0.2	0.1
Notoleptopus decaisnei	=SGD053-03	0.1	0.1
Pterocaulon sphacelatum	NC	0.3	0.1
Ptilotus calostachyus	SGD101-05	0.4	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	0.1
Rhynchosia minima	SGD101-06	0.5	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Salsola australis	NC	0.4	0.1
Senna artemisioides subsp. *oligophylla*	SGD101-01	1.4	2
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD121-05	0.9	0.1
Sida fibulifera	NC	0.2	0.1
Solanum ?phlomoides	NC	0.3	0.1
Tephrosia ?densa	=SGD053-05	0.2	0.1
Tribulus macrocarpus	SGD101-07	0.3	0.1
Tribulus suberosus	NC	0.2	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.3	0.1
Trigastrotheca molluginea	SGD101-08	0.3	0.1
Triodia pungens	SGD101-09	0.5	1
Triodia pungens	SGD101-09	0.4	0.1
Waltheria indica	SGD101-04	0.4	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD102	17-03-25	
Dimensions	16.6 m x 150 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	723893	mE	
Northing	7499633	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Low (1-20º)		
Aspect	East		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Road access tracks, Mining exploration, Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Minor (10-30%)		
Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Acacia tumida* var. *pilbarensis*, *Grevillea wickhamii* subsp. hispidula, *Gossypium robinsonii*, *Santalum lanceolatum*, and *Ehretia saligna* var. *saligna* tall open scrub over *Duperreya commixta* scattered vines over *Senna artemisioides* subsp. *oligophylla* and *Indigofera monophylla* low open shrubland over *Triodia vanleeuwenii* and *Triodia ?epactia/pungens* open hummock grassland over *Themeda triandra*, **Cenchrus ciliaris* very open tussock grassland.		

Taxon	Collection Code	Height (m)	Cover (%)
Acacia monticola	NC	1.6	0.1
Acacia spondylophylla	NC	0.4	0.1
Acacia tumida var. *pilbarensis*	NC	3	22
Afrohybanthus aurantiacus	NC	0.2	0.5
Aristida contorta	=SGD119-02	0.4	0.1
Aristida inaequiglumis	SGD102-08	0.5	0.1
Arivela viscosa	NC	0.2	0.1
Boerhavia coccinea	NC	0.2	0.1
**Cenchrus ciliaris*	NC	0.6	3
Clerodendrum floribundum var. *angustifolium*	=SGD085-02	2.1	0.1
Corymbia hamersleyana	NC	3	1.5
Cucumis variabilis	NC	2.2	0.1
Dolichocarpa crouchiana	NC	0.1	0.1
Duperreya commixta	NC	2.3	1
Ehretia saligna var. *saligna*	SGD102-04	2.2	2
Enneapogon caerulescens	NC	0.3	0.1
Eriachne mucronata	NC	0.3	0.1
Eucalyptus gamophylla	NC	1.8	0.5
Euphorbia ?biconvexa	=SGD055-05	0.4	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.5	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Ficus brachypoda	=SGD059-04	1.5	0.1
Glycine canescens	NC	2.2	0.1
Gomphrena cunninghamii	NC	0.1	0.1
Gossypium robinsonii	NC	3	4
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	3	4
Hibiscus burtonii	SGD102-05	0.4	0.1
Indigofera monophylla	NC	0.5	1.5
Jasminum didymum subsp. *lineare*	NC	0.7	0.1
Mirbelia viminalis	SGD102-03	1.1	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Neurachne muelleri	NC	0.4	0.5
Paspalidium tabulatum	=SGD059-03	0.1	0.1
Polycarpaea longiflora	SGD102-07	0.2	0.1
Pterocaulon sphacelatum	NC	0.1	0.1
Ptilotus calostachyus	NC	0.6	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Santalum lanceolatum	NC	2.1	2.5
Senna artemisioides subsp. *oligophylla*	NC	0.8	1
Senna artemisioides subsp. *oligophylla*	=SGD101-01	0.6	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.1	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD031-03	0.2	0.1
Sida sp. L (A.M. Ashby 4202)	SGD102-06	0.2	0.1
Solanum phlomoides	=SGD085-05	0.4	0.1
Solanum sp.	=SGD059-01	0.1	0.1
Tephrosia ?densa	=SGD053-05	0.8	0.1
Themeda triandra	NC	0.5	6
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia ?epactia/pungens	SGD102-02	0.4	18
Triodia vanleeuwenii	SGD102-01	0.2	1.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD103	17-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	725068	mE	
Northing	7499852	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Mining exploration, Road access tracks, Weed invasion		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus gamophylla* scattered low mallee over *Acacia atkinsiana* and *Acacia pachyacra* tall open shrubland over *Acacia ancistrocarpa* and *Grevillea wickhamii* ?subsp. open shrubland over *Acacia spondylophylla* low open shrubland over *Triodia basedowii* and *Triodia pungens* open hummock grassland over *Ptilotus calostachyus* , *Ptilotus astrolasius* , and *Corchorus* aff. *tectus* very open herbland.

Taxon	Collection Code	Height (m)	Cover (%)
?Abutilon sp.	=SGD053-06	0.4	0.1
Acacia ancistrocarpa	=SGD121-08	1.7	1
Acacia atkinsiana	SGD103-03	3	1.5
Acacia pachyacra	SGD103-04	2.1	1
Acacia pyrifolia var. *pyrifolia*	NC	0.9	0.1
Acacia spondylophylla	NC	0.7	4
Acacia tumida var. *pilbarensis*	NC	2.6	0.1
Afrohybanthus aurantiacus	NC	0.5	0.1
Aristida ?holathera var. *holathera*	=SGD124-06	0.6	0.1
Aristida contorta	=SGD119-02	0.2	0.1
Boerhavia coccinea	NC	0.1	0.1
Bonamia erecta	=SGD117-05	0.5	0.1
**Cenchrus ciliaris*	NC	0.5	0.5
Corchorus aff. tectus	SGD103-05	0.3	2
Corymbia hamersleyana	NC	5	0.5
Duperreya commixta	NC	2.3	0.1
Eucalyptus gamophylla	NC	2.3	1
Euploca pachyphylla	=SGD124-11	0.2	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Gomphrena affinis subsp. *pilbarensis*	SGD103-10	0.3	0.1
Gomphrena sp.	NC	0.2	0.1
Goodenia microptera	SGD103-08	0.2	0.1
Gossypium robinsonii	NC	0.3	0.1
Grevillea wickhamii ? subsp.	=SGD124-05	1.7	1.5
Hakea lorea subsp. *lorea*	=SGD117-02	2.1	0.1
Indigofera monophylla	NC	0.1	0.1
Neurachne muelleri	NC	0.4	0.1
Polymeria ?ambigua	SGD103-09	0.3	0.1
Ptilotus astrolasius	SGD103-12	0.3	4
Ptilotus calostachyus	NC	0.9	1.5

Taxon	Collection Code	Height (m)	Cover (%)
Ptilotus clementii	=SGD086-05	0.5	0.1
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus polystachyus	SGD103-11	0.5	0.1
Rhynchosia minima	NC	0.3	0.1
Senna artemisioides subsp. *helmsii*	NC	0.9	0.5
Senna artemisioides subsp. *oligophylla*	NC	1.1	0.1
Senna notabilis	NC	0.2	0.1
Sida sp.	NC	0.4	0.1
Solanum ?phlomoides	NC	0.2	0.1
Trianthema pilosum	SGD103-07	0.2	0.1
Tribulus ?hirsutus	SGD103-06	0.2	0.1
Tribulus macrocarpus	=SGD101-07	0.2	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.3	0.1
Triodia basedowii	SGD103-01	0.3	9
Triodia pungens	SGD103-02	0.3	20

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD104	16-03-25	
Dimensions	50 m x 50 m		
Described by	Owen Raynor		
Location (GDA) Zone 50K			
Easting	723198	mE	
Northing	7497464	mS	
Site Characteristics			
Landform	Incline - Upper Slope		
Slope	Moderately inclined (21-45º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus gamophylla* scattered low mallee over *Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Triodia vanleeuwenii* very open hummock grassland over *Ptilotus polystachyus* very open herbland over *Amphipogon ?sericeus* scattered tussock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adoxa var. *adoxa*	SGD104-03	0.4	0.1
Acacia adoxa var. adoxa x Acacia spondylophylla	SGD104-02	0.3	0.1
Acacia arida	SGD104-04	1.2	0.5
Acacia maitlandii	=SGD037-02	2	0.5
Acacia pruinocarpa	NC	1.8	0.1
Amphipogon ?sericeus	SGD104-01	0.3	1.5
Corchorus crozophorifolius	NC	0.4	0.5
Dampiera candicans	=SGD028-04	0.3	0.5
Eucalyptus gamophylla	=SGD075-03	3.6	1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD076-07	3.4	1
?Goodenia stobbsiana	=SGD028-02	0.1	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	0.9	0.1
Hakea chordophylla	=SGD026-10	3.5	0.1
Ptilotus polystachyus	NC	0.4	2
Senna venusta	=SGD050-05	0.3	0.1
Triodia vanleeuwenii	=SGD096-01	0.3	6

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD105	16-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke		
Location (GDA) Zone 50K			
Easting	723955	mE	
Northing	7502360	mS	
Site Characteristics			
Landform	Plain - Undulating		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Recent (0-2 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus gamophylla* low open mallee over *Triodia basedowii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ?adsurgens	SGD105-03	1.1	0.5
Acacia colei var. *colei*	SGD105-11	1.3	0.1
Acacia inaequilatera	NC	1.9	0.1
Acacia pachyacra	SGD105-02	1.5	0.5
Afrohybanthus aurantiacus	NC	0.2	0.1
Aristida holathera var. *holathera*	SGD105-09	0.2	0.1
Bonamia erecta	=SGD044-04	0.4	0.5
Corchorus aff. tectus	SGD105-07	0.4	0.1
Dicrastylis cordifolia	=SGD044-06	0.1	0.1
Eragrostis eriopoda	NC	0.1	0.1
Eriachne aristidea	=SGD029-03	0.1	0.1
Eucalyptus gamophylla	NC	6	8
Euphorbia australis var. *hispidula*	SGD105-12	0.3	0.1
Euploca pachyphylla	=SGD098-01	0.1	0.1
Gomphrena affinis subsp. *pilbarensis*	SGD105-06	0.2	0.1
Goodenia microptera	=SGD098-04	0.4	0.1
Grevillea wickhamii ? subsp.	SGD105-05	2.2	0.5
Hakea chordophylla	NC	3	0.5
Hakea lorea subsp. *lorea*	NC	3.2	0.1
Hibiscus burtonii	SGD105-10	0.2	0.1
Indigofera monophylla	NC	0.3	0.1
Ptilotus astrolasius	NC	0.3	0.1
Ptilotus calostachyus	NC	0.4	0.1
Ptilotus exaltatus	NC	0.3	0.1
Senna artemisioides subsp. *oligophylla*	=SGD032-17	0.8	0.1
Senna notabilis	NC	0.5	0.1
Sida sp.	NC	0.2	0.1
Solanum ?phlomoides	NC	0.4	0.1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	SGD105-08	0.1	0.1
Trianthema pilosum	SGD105-04	0.1	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Tribulus macrocarpus	=SGD98-02	0.2	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia basedowii	SGD105-01	0.6	22

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD106	16-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	725134	mE	
Northing	7502021	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion, Cattle grazing		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Grevillea wickhamii* ?subsp., *Acacia sericophylla*, and *Acacia pachyacra* tall open shrubland over *Sida fibulifera* low open shrubland over *Triodia basedowii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pachyacra	SGD106-05	2.1	1.5
Acacia sericophylla	SGD107-13	3.1	2.5
Afrohybanthus aurantiacus	NC	0.4	0.1
Aristida ?holathera var. *holathera*	NC	0.5	0.1
Bonamia erecta	SGD106-04	0.3	0.1
Corchorus aff. tectus	SGD106-02	0.5	0.1
Dicrastylis cordifolia	NC	0.2	0.1
Euploca pachyphylla	SGD106-03	0.1	0.1
Goodenia microptera	=SGD107-07	0.3	0.1
Gossypium australe	=SGD107-09	0.3	0.1
Grevillea wickhamii ? subsp.	SGD106-01	2.1	3.5
Neurachne muelleri	NC	0.3	0.1
Portulaca oleracea	NC	0.1	0.1
Ptilotus exaltatus	NC	0.4	0.1
Ptilotus obovatus var. *obovatus*	NC	0.5	0.5
Ptilotus sp.	=SGD028-03	0.2	0.5
Senna glutinosa subsp. *glutinosa*	NC	1.8	0.1
Senna venusta	=SGD050-05	0.3	0.1
Sida fibulifera	NC	0.5	2.5
Tribulopis angustifolia	SGD106-06	0.1	0.1
Tribulus ?macrocarpus	=SGD107-03	0.1	0.1
Trigastrotheca molluginea	=SGD107-01	0.2	0.1
Triodia basedowii	=SGD107-11	0.4	21
Triodia basedowii	SGD106-07	0.4	0.1
Triumfetta maconochieana	=SGD072-08	0.9	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD108	20-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	726103	mE	
Northing	7504064	mS	
Site Characteristics			
Landform	Plain - Sandy		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Good		
Disturbance Type	Road access tracks, Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Loam		
Soil Colour	Dark brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Rare		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* low open woodland over *Eucalyptus gamophylla* scattered low mallee over *Acacia inaequilatera*, *Hakea lorea* subsp. *lorea* tall open shrubland over *Acacia atkinsiana* open shrubland over *Corchorus lasiocarpus* subsp. *lasiocarpus* scattered low shrubs over *Triodia basedowii* open hummock grassland over *Aristida contorta*, **Cenchrus ciliaris*, and *Eragrostis eriapoda* open tussock grassland over *Trianthema pilosum* scattered herbs.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adsurgens	SGD108-07	2.1	0.1
Acacia atkinsiana	=SGD103-03	1.8	4
Acacia inaequilatera	NC	3	2
Acacia tenuissima		1.2	0.5
Afrohybanthus aurantiacus	NC	0.4	0.1
Aristida ?holathera var. *holathera*	=SGD124-06	0.9	0.1
Aristida contorta	=SGD119-02	0.4	3
Arivela viscosa	NC	0.3	0.1
Atalaya hemiglauca	=SGD043-04	2.7	0.1
Boerhavia coccinea	NC	0.1	0.1
Bonamia erecta	=SGD019-07	0.3	0.5
**Cenchrus ciliaris*	NC	0.6	2
Corchorus aff. tectus	SGD108-04	0.5	0.5
Corchorus lasiocarpus subsp. *lasiocarpus*	=SGD017-03	0.4	1
Corymbia hamersleyana	NC	4	1.5
Dicrastylis cordifolia	=SGDr020-02	0.4	0.1
Eragrostis eriopoda	SGD108-06	0.4	1
Eriachne aristidea	SGD108-03	0.2	0.1
Eucalyptus gamophylla	NC	2.1	1.5
Goodenia microptera	=SGD103-08	0.3	0.1
Goodenia stobbsiana	SGD108-05	0.6	0.1
Hakea lorea subsp. *lorea*	=SGD121-10	2.1	1
Indigofera monophylla	NC	0.3	0.1
Jasminum didymum subsp. *lineare*	NC	2.2	0.1
Maireana tomentosa subsp. *tomentosa*	SGD108-02	0.4	0.1
Ptilotus astrolasius	=SGD103-12	0.3	0.1
Ptilotus calostachyus	NC	1.1	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.2	0.1
Ptilotus polystachyus	SGD108-08	0.3	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Rhagodia eremaea	NC	1.1	0.1
Rhynchosia minima	NC	0.3	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.3	0.1
Senna notabilis	NC	0.2	0.1
Sida fibulifera	NC	0.2	0.1
Tephrosia ?rosea var. Fortescue Creeks (M.I.H Brooker 2186)	=SGD006-07	0.2	0.1
Trianthema pilosum	NC	0.1	1
Tribulus macrocarpus	=SGD101-07	0.1	0.1
Triodia basedowii	SGD108-01	0.4	12

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD110	20-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	707280	mE	
Northing	7513669	mS	
Site Characteristics			
Landform	Drainage - Medium Creekline		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion, Rubbish/Litter		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Mudstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia* ?*hamersleyana* low open woodland over *Acacia tumida* var. pilbarensis, *Grevillea wickhamii* ?subsp., *Acacia pyrifolia* subsp. pyrifolia, and *Gossypium robinsonii* tall shrubland over *Corchorus* sp. open shrubland over *Tephrosia densa* low open shrubland over *Triodia epactia* open hummock grassland over **Cenchrus ciliaris* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ancistrocarpa	=SGD112-07	2.8	0.1
Acacia bivenosa	NC	1.5	0.1
Acacia pyrifolia var. *pyrifolia*	SGD110-05	3.4	1.5
Acacia tumida var. *pilbarensis*	=SGD050-10	3.4	7
Afrohybanthus aurantiacus	NC	0.4	0.1
Aristida contorta	NC	0.2	0.1
Arivela viscosa	NC	0.4	0.1
**Cenchrus ciliaris*	NC	0.4	3.5
Corchorus aff. tectus	=SGD098-03	0.7	0.1
Corchorus sp.	=SGDr004-02	1.2	3
Corymbia ?hamersleyana	SGD110-04	5.2	4
Cucumis variabilis	NC	0.9	0.1
Cymbopogon ambiguus	NC	0.4	0.1
Duperreya commixta	NC	2.4	0.1
Enneapogon caerulescens	NC	0.3	0.1
Eragrostis eriopoda	SGD110-07	0.4	0.1
Eriachne pulchella subsp. *pulchella*	=SGD112-05	0.1	0.1
Euploca cunninghamii	SGD110-01	0.3	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Gompholobium oreophilum	=SGD026-08	0.3	0.1
Gossypium robinsonii	NC	3.2	1.5
Grevillea wickhamii ? subsp.	=SGD026-13	3.2	5
Indigofera monophylla	SGD110-02	1.3	0.5
Neurachne muelleri	NC	0.2	0.1
Notoleptopus decaisnei	=SGD071-05	0.4	0.1
Polycarpaea ?longiflora	NC	0.1	0.1
Pterocaulon sp.	=SGDr007-02	0.3	0.1
Ptilotus exaltatus	NC	0.5	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.2	0.1
Tephrosia densa	=SGDr004-10	0.5	5

Taxon	Collection Code	Height (m)	Cover (%)
Themeda triandra	NC	0.6	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.3	0.1
Triodia epactia	SGD110-06	0.4	11
Waltheria indica	SGD110-03	0.4	0.1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD111	20-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	707042	mE	
Northing	7513826	mS	
Site Characteristics			
Landform	Plain - Clay/Loam		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Mudstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Rare		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia pruinocarpa* and *Acacia ?aptaneura* tall shrubland over *Triodia epactia* open hummock grassland over **Cenchrus ciliaris* scattered tussock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon fraseri subsp. *fraseri*	SGD111-03	0.4	0.1
Acacia ?aptaneura	SGD111-01	4.6	6
Acacia bivenosa	NC	2.1	0.1
Acacia pruinocarpa	NC	4.8	6
Acacia pyrifolia var. *pyrifolia*	=SGD052-02	2.4	0.1
Amphipogon ?sericeus	SGD111-09	0.3	0.1
Boerhavia coccinea	NC	0.3	0.1
**Cenchrus ciliaris*	NC	0.4	1.5
Cheilanthes sieberi subsp. *sieberi*	SGD111-04	0.2	0.1
Corchorus sp.	=SGD090-01	0.2	0.1
Duperreya commixta	NC	0.5	0.1
Eremophila forrestii subsp. *forrestii*	SGD111-11	1.3	0.1
Eremophila latrobei subsp. *filiformis*	=OppJC-10-03	0.5	0.1
Eremophila longifolia	SGD111-10	0.5	0.1
Eulalia aurea	SGD111-11	0.5	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.3	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1
Goodenia sp.	NC	0.1	0.1
Maireana ?tomentosa subsp. *tomentosa*	SGD111-08	0.4	0.1
Maireana sp.	SGD111-06	0.2	0.1
Portulaca oleracea	NC	0.1	0.1
Psydrax latifolia	NC	2.2	0.1
Ptilotus exaltatus	NC	0.4	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	0.5
Rhagodia eremaea	SGD111-07	0.8	0.1
Salsola australis	NC	0.5	0.1
Senna artemisioides subsp. *helmsii*	NC	1.6	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.5	0.1
Sida fibulifera	NC	0.2	0.1
Sida sp.	NC	0.1	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Tribulus ?macrocarpus	=SGD107-03	0.1	0.1
Triodia ?basedowii	SGD111-05	0.5	0.1
Triodia epactia	SGD111-02	0.6	10

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD112	20-03-25	
Dimensions	25 m x 100 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	706658	mE	
Northing	7513422	mS	
Site Characteristics			
Landform	Drainage - Medium Creekline		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia ?hamersleyana* low open woodland over *Acacia tumida* var. pilbarensis, *Gossypium robinsonii*, and *Acacia pyrifolia* subsp. pyrifolia tall shrubland over *Tephrosia densa* scattered low shrubs over *Triodia epactia* open hummock grassland over **Cenchrus ciliaris* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ancistrocarpa	SGD112-07	2.4	0.1
Acacia bivenosa	NC	2.2	0.5
Acacia pruinocarpa	NC	2.7	0.5
Acacia pyrifolia var. *pyrifolia*	SGD112-03	2.6	2
Acacia tumida var. *pilbarensis*	=SGD050-10	3.4	8
Afrohybanthus aurantiacus	NC	0.5	0.1
Aristida ?holathera var. *holathera*	NC	0.3	0.1
Aristida inaequiglumis	SGD112-06	0.1	0.1
Arivela viscosa	NC	0.3	0.1
Bonamia erecta	=SGD016-02	0.2	0.1
**Cenchrus ciliaris*	NC	0.4	2.5
Corchorus sp.	=SGDr004-02	0.9	0.1
Corymbia ?hamersleyana	SGD112-09	5.8	4
Duperreya commixta	NC	1.2	0.1
Enneapogon caerulescens	NC	0.4	0.1
Eriachne pulchella subsp. *pulchella*	SGD112-05	0.2	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Gossypium australe	=SGD107-09	0.3	0.1
Gossypium robinsonii	NC	3.5	1.5
Grevillea wickhamii ? subsp.	=SGD026-13	0.6	0.1
Jasminum didymum subsp. *lineare*	NC	0.8	0.1
Nellica maderaspatensis	SGD112-04	0.4	0.1
Neurachne muelleri	NC	0.3	0.5
Notoleptopus decaisnei	=SGD071-05	0.4	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	0.5
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Santalum lanceolatum	=SGDr004-06	2.4	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.9	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.8	0.1
Senna glutinosa subsp. *glutinosa ?x*	SGD112-08	1.7	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Sida ? sp. L (A.M. Ashby 4202)	SGD112-02	0.2	0.1
Solanum ?phlomoides	NC	0.3	0.1
Tephrosia densa	=SGDr004-10	0.4	1.5
Tribulus suberosus	NC	0.6	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.7	0.1
Triodia epactia	SGD112-01	0.4	15

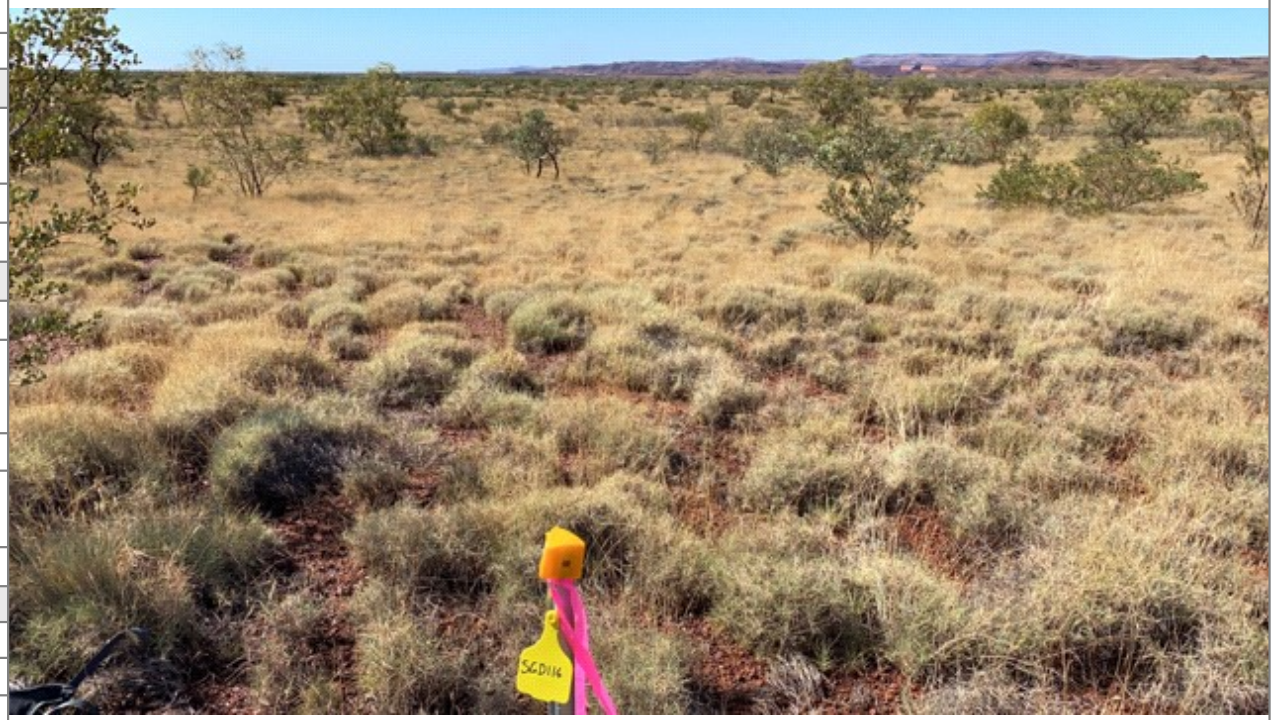
Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD113	20-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini, Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	704903	mE	
Northing	7513065	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Rare		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus gamophylla* low open mallee over *Acacia ancistrocarpa* scattered tall shrubs over *Corchorus lasiocarpus* subsp. *lasiocarpus* low scattered shrubs over *Triodia ?basedowii* open hummock grassland over *Ptilotus exaltatus* scattered herbs.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ancistrocarpa	=SGD121-08	2.1	1.5
Acacia pyrifolia var. *pyrifolia*	NC	1.6	0.1
Acacia tenuissima	=SGD042-07	0.4	0.1
Afrohybanthus aurantiacus	NC	0.5	0.1
Aristida ?holathera var. *holathera*	=SGD124-06	0.4	0.1
Aristida contorta	=SGD119-02	0.2	0.1
Arivela viscosa	NC	0.3	0.1
**Cenchrus ciliaris*	NC	0.5	0.1
Corchorus lasiocarpus subsp. *lasiocarpus*	=SGD017-03	0.3	1
Corymbia hamersleyana	NC	4.5	0.5
Cymbopogon ambiguus	NC	0.6	0.1
Duperreya commixta	NC	0.9	0.1
Eragrostis eriopoda	NC	0.4	0.1
Eremophila forrestii subsp. *forrestii*	=SGD121-04	1.8	0.1
Eriachne aristidea	=SGD108-03	0.3	0.1
Eucalyptus gamophylla	NC	4.5	2.5
Euphorbia tannensis subsp. *eremophila*	NC	0.3	0.1
Euploca pachyphylla	=SGD124-11	0.2	0.5
Euploca tenuifolia	=SGD006-06	0.2	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Goodenia microptera	=SGD103-08	0.5	0.1
Grevillea wickhamii subsp. *hispidula*	=SGD043-01	3.2	0.1
Hakea lorea subsp. *lorea*	=SGD117-02	2.1	0.1
Hibiscus sturtii var. *platychlamys*	SGD113-03	0.2	0.1
Indigofera monophylla	NC	0.2	0.1
Neurachne muelleri	NC	0.3	0.1
Ptilotus calostachyus	NC	0.3	0.1
Ptilotus exaltatus	NC	0.1	1
Rhynchosia minima	NC	0.2	0.1
Salsola australis	NC	0.5	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Senna artemisioides subsp. *helmsii*	NC	1.6	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.2	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	1.8	0.1
Sida ?arenicola	SGD113-02	0.5	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD121-05	0.5	0.1
Sida fibulifera	NC	0.2	0.5
Sida sp.	NC	0.7	0.1
Tephrosia ?rosea var. Fortescue Creeks (M.I.H Brooker 2186)	=SGD006-07	0.5	0.1
Tribulus macrocarpus	=SGD101-07	0.2	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.5	0.1
Trigastrotheca molluginea	NC	0.4	0.1
Triodia ?basedowii	SGD113-01	0.3	22

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD114	20-03-25	
Dimensions	50 m x 50 m		
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	705295	mE	
Northing	7514057	mS	
Site Characteristics			
Landform	Undulating Low Hills		
Slope	Low (1-20º)		
Aspect	South-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		



Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Eucalyptus gamophylla* scattered low mallee over *Acacia inaequilatera* , *Hakea chordophylla* , and *Grevillea wickhamii* ?subsp. tall open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	1.7	0.5
Acacia inaequilatera	NC	3.1	1.5
Acacia tenuissima	SGD114-02	0.6	0.1
Acacia tumida var. *pilbarensis*	NC	2.2	0.1
Afrohybanthus aurantiacus	NC	0.6	0.1
Bonamia erecta	=SGD044-04	0.2	0.1
Calytrix carinata	=SGD023-03	0.6	0.1
Corchorus sp.	SGD114-01	0.3	0.1
Corymbia hamersleyana	NC	5	1
Cymbopogon ambiguus	NC	0.6	0.1
Dicrastylis cordifolia	=SGD044-06	0.1	0.1
Dodonaea petiolaris	SGD114-05	1.3	0.1
Eriachne lanata	=SGD001-07	0.1	0.1
Eriachne mucronata	NC	0.2	0.1
Eucalyptus gamophylla	NC	2.1	1.5
Eulalia aurea	NC	0.4	0.1
Goodenia microptera	SGD114-04	0.1	0.1
Goodenia stobbsiana	NC	0.1	0.1
Grevillea wickhamii ? subsp.	NC	3	1
Hakea chordophylla	NC	2.5	1
Indigofera monophylla	NC	0.6	0.1
Neurachne muelleri	NC	0.3	0.1
Ptilotus calostachyus	NC	0.2	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.2	0.1
Rhynchosia minima	NC	0.3	0.1
Scaevola parvifolia subsp. *pilbarae*	=SGD098-12	0.2	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.4	0.1
Senna glutinosa subsp. *glutinosa*	NC	0.8	0.1
Triodia vanleeuwenii	NC	0.3	30

Taxon	Collection Code	Height (m)	Cover (%)
Triodia wiseana	NC	0.3	5
Vincetoxicum lineare	NC	0.8	0.1

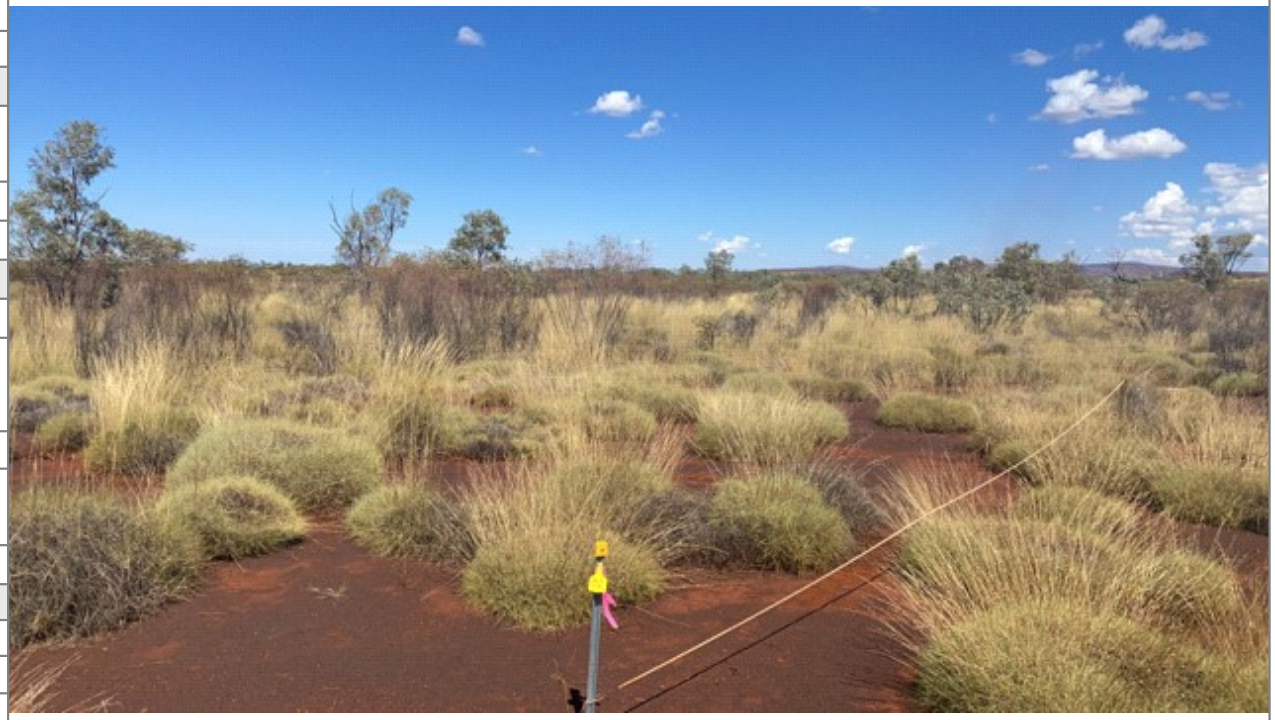
Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD115	12-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	706121	mE	
Northing	7514774	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia pruinocarpa* and *Acacia ?aptaneura* shrubland over *Dodonaea petiolaris*, *Senna artemisioides* subsp. *oligophylla*, *Psydrax latifolia* open shrubland over *Ptilotus obovatus* var. *obovatus* low scattered shrubs over *Chrysopogon fallax*, *Aristida contorta*, Neurachne muelleri, and **Cenchrus ciliaris* open tussock grassland over *Triodia ?vanleeuwenii* scattered hummock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.2	0.1
Acacia ?aptaneura	SGD115-02	4	3
Acacia ancistrocarpa	=SGD121-08	1.5	0.1
Acacia pruinocarpa	NC	5	9
Aristida ?holathera var. *holathera*	NC	0.5	0.1
Aristida contorta	NC	0.1	0.1
Aristida contorta	=SGD119-02	0.3	3
Boerhavia coccinea	NC	0.1	0.1
**Cenchrus ciliaris*	NC	0.3	1.5
Chrysopogon fallax	NC	0.4	3
Dodonaea petiolaris	NC	1.4	1.5
Duperreya commixta	NC	3	0.5
Enneapogon polyphyllus	NC	0.2	0.1
Eragrostis eriopoda	NC	0.4	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Glycine canescens	NC	0.5	0.1
Hibiscus ?brachychlaenus	=SGD119-05	0.4	0.1
Hibiscus burtonii	=SGD118-04	0.5	0.1
Indigofera monophylla	NC	0.4	0.1
Neurachne muelleri	NC	0.3	3
Portulaca oleracea	NC	0.1	0.1
Psydrax latifolia	NC	1.5	1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.9	1.5
Rhynchosia minima	NC	0.3	0.1
Salsola australis	NC	0.2	0.1
Sclerolaena cornishiana	=SGD121-09	0.4	0.1
Senna artemisioides subsp. *helmsii*	NC	0.3	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.5	1.5
Senna glutinosa subsp. ×*luerssenii*	NC	0.5	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Sida echinocarpa	NC	0.3	0.1
Sida fibulifera	NC	0.2	0.5
Solanum ?phlomoides	NC	0.5	0.1
Themeda triandra	NC	0.4	0.1
Tribulus astrocarpus	SGD115-03	0.1	0.1
Tribulus suberosus	NC	0.2	0.1
Triodia ?vanleeuwenii	SGD115-01	0.4	1.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD116	12-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	705326	mE	
Northing	7515134	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		



Vegetation Description	*Corymbia hamersleyana* low open woodland over *Eucalyptus gamophylla* very open mallee over *Acacia ancistrocarpa* tall open shrubland over *Triodia* ?*basedowii* and *Triodia pungens* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ancistrocarpa	=SGD121-08	2.3	4
Acacia inaequilatera	NC	2.1	0.1
Acacia sericophylla	SGD116-03	1.8	0.1
Acacia tumida ? var.	=SGDr020-01	1.4	0.1
Anthobolus leptomerioides	=SGD121-03	1.3	0.1
Bonamia erecta	=SGD117-05	0.2	0.1
Chrysopogon fallax	NC	0.4	0.1
Corymbia hamersleyana	NC	5	3
Eucalyptus gamophylla	NC	2.4	3
Grevillea wickhamii ? subsp.	=SGD124-05	2.1	0.1
Indigofera monophylla	NC	0.1	0.1
Maytenus sp. Mt Windell (S. van Leeuwen 846)	=SGDr020-04	0.9	0.1
Psydrax latifolia	NC	1.3	0.1
Ptilotus exaltatus	NC	0.1	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.8	0.5
Triodia ?basedowii	SGD116-02	0.6	35
Triodia pungens	SGD116-01	0.9	5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD117	12-03-25	
Dimensions	50 m x 50 m		
Described by	Scott Pansini, Andrew Greenley		
Location (GDA) Zone 50K			
Easting	704685	mE	
Northing	7515215	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	South		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus gamophylla* low open mallee over *Corymbia hamersleyana* scattered low trees over *Acacia inaequilatera* scattered tall shrubs over *Acacia ancistrocarpa*, *Senna glutinosa* subsp. *glutinosa* open shrubland over *Triodia ?vanleeuwenii* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adsurgens	SGD117-03	2.5	0.1
Acacia ancistrocarpa	=SGD121-08	1.8	1
Acacia inaequilatera	NC	2.1	1
Aristida holathera var. *holathera*	NC	0.3	0.1
Bonamia erecta	=SGDr020-03	0.2	0.1
Bonamia erecta	SGD117-05	0.3	0.1
Corymbia hamersleyana	NC	6	1.5
Eragrostis eriopoda	NC	0.3	0.1
Eucalyptus gamophylla	NC	2.5	2
Euploca pachyphylla	=SGD124-11	0.3	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Goodenia microptera	SGD117-04	0.3	0.1
Hakea lorea subsp. *lorea*	SGD117-02	3	0.1
Hibiscus ?brachychlaenus	=SGD119-05	0.1	0.1
?Leichhardtia australis	NC	1.4	0.1
Neurachne muelleri	NC	0.4	0.1
Psydrax latifolia	NC	1.9	0.1
Ptilotus calostachyus	NC	0.4	0.5
Ptilotus exaltatus	NC	0.3	0.1
Scaevola parvifolia subsp. *?pilbarae*	=SGD123-02	0.3	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.4	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.6	1
Senna notabilis	NC	0.1	0.1
Sida ?arenicola	=SGD118-03	0.4	0.1
Sida sp.	NC	0.3	0.1
Triodia ?vanleeuwenii	SGD117-01	0.4	32

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD118	12-03-25	
Dimensions	50 m x 50 m		
Described by	Scott Pansini, Andrew Greenley		
Location (GDA) Zone 50K			
Easting	704239	mE	
Northing	7516382	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	Cattle grazing		
Fire Age (years)	Recent (0-2 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Orange		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Rare		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus gamophylla* scattered low trees over *Acacia trachycarpa* and *Acacia ancistrocarpa* tall shrubland over *Senna glutinosa* subsp. *glutinosa* , *Eremophila forrestii* subsp. *forrestii* , and *Senna artemisioides* subsp. *oligophylla* open shrubland over *Sida* sp. and *Corchorus lasiocarpus* subsp. *lasiocarpus* low open shrubland over *Triodia* ?*basedowii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ancistrocarpa	=SGD121-08	2.1	2.5
Acacia inaequilatera	NC	3	0.5
Acacia pruinocarpa	NC	2.2	0.1
Acacia trachycarpa	SGD118-02	2.1	8
Afrohybanthus aurantiacus	NC	0.3	0.1
Arivela viscosa	NC	0.3	0.1
Bonamia erecta	=SGDr020-03	0.2	0.1
Corchorus lasiocarpus subsp. *lasiocarpus*	=SGD124-04	0.3	1
Corymbia hamersleyana	NC	3	0.5
Dicrastylis cordifolia	=SGDr020-02	0.3	0.1
Dodonaea petiolaris	NC	0.8	0.1
Enneapogon polyphyllus	NC	0.2	0.1
Eremophila forrestii subsp. *forrestii*	=SGD121-04	1.7	1
Eucalyptus gamophylla	NC	3	1.5
Eulalia aurea	NC	0.4	0.1
Euploca pachyphylla	=SGD124-11	0.2	0.1
Euploca sp.	NC	0.2	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Hibiscus ?brachychlaenus	=SGD119-05	0.3	0.5
Hibiscus burtonii	SGD118-04	0.3	0.1
Indigofera monophylla	NC	0.2	0.1
Indigofera sp.	NC	0.3	0.1
Jasminum didymum subsp. *lineare*	NC	1.1	0.1
Neurachne muelleri	NC	0.3	0.5
Ptilotus calostachyus	NC	0.4	0.1
Ptilotus exaltatus	NC	0.1	0.5
Ptilotus obovatus var. *obovatus*	NC	0.6	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.3	1
Senna glutinosa subsp. *glutinosa*	NC	1.8	1.5
Senna notabilis	NC	0.2	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Sida ?arenicola	SGD118-03	0.6	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD121-05	0.4	0.1
Sida echinocarpa	NC	0.4	0.5
Sida fibulifera	NC	0.3	0.5
Sida sp.	NC	0.4	2
Solanum ?phlomoides	NC	0.3	0.1
Tribulus ?macrocarpus	=SGD124-07	0.3	0.1
Triodia ?basedowii	SGD118-01	0.4	15

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD119	12-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	704596	mE	
Northing	7516978	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Cattle grazing		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay		
Soil Colour	Orange		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia pruinocarpa*, *Acacia aptaneura*, *Acacia* sp. (*aneura* complex), and *Psydrax latifolia* tall shrubland over *Senna glutinosa* subsp. ×*luerssenii*, and *Senna glutinosa* subsp. *glutinosa* open shrubland over *Dodonaea petiolaris*, *Ptilotus obovatus* var. *obovatus* low open shrubland over *Triodia pungens* scattered hummock grassland over *Enneapogon polyphyllus* and *Chrysopogon fallax* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.2	0.5
Acacia aptaneura	=SGD121-01	5	7
Acacia pruinocarpa	NC	5	9
Acacia sp. (aneura complex)	SGD119-01	4	4
Anthobolus leptomerioides	=SGD121-03	1.1	0.1
Aristida ?holathera var. *holathera*	NC	0.4	0.1
Aristida contorta	SGD119-02	0.3	0.1
Arivela viscosa	NC	0.4	0.1
Cheilanthes sieberi subsp. *sieberi*	=SGD121-06	0.3	0.1
Chrysopogon fallax	NC	0.5	2
Cucumis variabilis	NC	1.7	0.1
Dodonaea petiolaris	NC	0.9	1
Duperreya commixta	NC	1	0.1
Enneapogon polyphyllus	NC	0.3	6
Eragrostis eriopoda	NC	0.2	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Glycine canescens	NC	1.3	0.1
Gossypium australe	=SGD124-09	0.8	0.1
Hibiscus ?brachychlaenus	SGD119-05	0.4	0.1
Hibiscus burtonii	SGD119-04	0.4	0.1
Portulaca oleracea	NC	0.1	0.1
Psydrax latifolia	NC	2.2	3
Pterocaulon sphacelatum	NC	0.4	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	1
Salsola australis	NC	0.3	0.1
Senna artemisioides subsp. *helmsii*	NC	1.6	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	1.9	1
Senna glutinosa subsp. *glutinosa*	NC	1.8	1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD121-05	0.7	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Sida fibulifera	NC	0.2	0.1
Solanum ?phlomoides	NC	0.5	0.1
Themeda triandra	NC	0.4	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.9	0.1
Triodia pungens	SGD119-03	0.5	1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD120	20-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	702144	mE	
Northing	7517776	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia pruinocarpa* and *Acacia ?aptaneura* tall shrubland over *Psydrax latifolia* and *Dodonaea petiolaris* open shrubland over *Triodia pungens* scattered hummock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.1	0.1
Acacia ?aneura	SGD120-03	2.1	0.1
Acacia ?aptaneura	SGD120-02	4	5
Acacia pruinocarpa	NC	6	10
Anthobolus leptomerioides	=SGD121-03	0.9	0.1
Aristida ?holathera var. *holathera*	=SGD124-06	0.5	0.5
Aristida contorta	NC	0.1	3
Cheilanthes sieberi subsp. *sieberi*	=SGD121-06	0.2	0.1
Chrysopogon fallax	NC	0.4	0.5
Cucumis variabilis	NC	1.2	0.1
Dodonaea petiolaris	NC	1.5	1
Duperreya commixta	NC	1.4	0.1
Enneapogon polyphyllus	NC	0.2	1
Eremophila forrestii subsp. *forrestii*	=SGD121-04	1.6	0.1
Eremophila latrobei subsp. *filiformis*	=SGD121-11	1.6	0.5
Eremophila longifolia	NC	1.6	0.1
Eulalia aurea	NC	0.8	0.5
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	2
Hakea lorea subsp. *lorea*	=SGD117-02	2.5	0.1
Hibiscus burtonii	=SGD118-04	0.5	0.1
Maireana ?tomentosa subsp. *tomentosa*	SGD120-04	0.3	0.1
Maireana tomentosa subsp. *tomentosa*	NC	0.6	0.1
Panicum decompositum	NC	0.5	0.1
Portulaca oleracea	NC	0.1	0.1
Psydrax latifolia	NC	1.1	2
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	NC	0.5	1
Rhagodia eremaea	NC	0.8	0.1
Salsola australis	NC	0.1	0.1
Senna artemisioides subsp. *helmsii*	NC	0.4	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Senna glutinosa subsp. ×*luerssenii*	NC	1.8	0.1
Senna glutinosa subsp. *glutinosa*	NC	0.5	0.1
Sida fibulifera	NC	0.2	3
Tribulus astrocarpus	=SGD115-03	0.5	0.1
Triodia pungens	SGD120-01	0.3	1.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD121	11-03-25	
Dimensions	50 m x 50 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	701558	mE	
Northing	7518104	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	South-east		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia pruinocarpa* , *Acacia aptaneura* and *Psydrax latifolia* tall shrubland over *Ptilotus obovatus* var. *obovatus* low open shrubland over *Enneapogon polyphyllus* and **Cenchrus ciliaris* very open tussock grassland with *Triodia pungens* scattered hummock grasses over *Evolvulus alsinoides* var. villosicalyx scattered herbs.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon lepidum	SGD121-07	0.4	0.1
Abutilon sp.	NC	0.2	0.5
Acacia ancistrocarpa	SGD121-08	2.6	0.1
Acacia aptaneura	SGD121-01	5	8
Acacia pruinocarpa	NC	5	12
Acacia pyrifolia var. *pyrifolia*	NC	1.6	0.1
Anthobolus leptomerioides	SGD121-03	2.4	0.1
Aristida ?holathera var. *holathera*	NC	0.7	0.1
Aristida contorta	NC	0.2	1
Arivela viscosa	NC	0.1	0.1
Boerhavia coccinea	NC	0.1	0.1
**Cenchrus ciliaris*	NC	0.4	2.5
Cheilanthes sieberi subsp. *sieberi*	SGD121-06	0.3	0.1
Chrysopogon fallax	NC	0.6	0.5
Dodonaea petiolaris	NC	1.3	0.5
Duperreya commixta	NC	2.5	0.1
Enchylaena tomentosa var. *tomentosa*	NC	0.8	0.1
Enneapogon polyphyllus	NC	0.2	5
Eremophila forrestii subsp. *forrestii*	SGD121-04	0.6	1
Eremophila latrobei subsp. *filiformis*	SGD121-11	1.6	0.1
Eulalia aurea	NC	0.6	0.5
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	1
Glycine canescens	NC	0.4	0.1
Grevillea berryana	NC	1.3	0.1
Hakea lorea subsp. *lorea*	SGD121-10	3	0.1
?Leichhardtia australis	NC	3	0.1
Maireana tomentosa subsp. *tomentosa*	NC	0.3	0.1
Portulaca oleracea	NC	0.1	0.1
Psydrax latifolia	NC	1.9	3
Ptilotus exaltatus	NC	0.1	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Ptilotus obovatus var. *obovatus*	NC	0.6	2
Salsola australis	NC	0.2	0.5
Scaevola parvifolia subsp. *?pilbarae*	=SGD123-04	0.3	0.1
Sclerolaena cornishiana	SGD121-09	0.3	0.1
Senna artemisioides subsp. *helmsii*	NC	1.4	0.5
Senna glutinosa subsp. ×*luerssenii*	NC	1.3	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	SGD121-05	0.3	0.1
Sida fibulifera	NC	0.1	0.5
Solanum ?phlomoides	NC	0.8	0.1
Tribulus ?macrocarpus	=SGD124-07	0.1	0.1
Triodia pungens	SGD121-02	0.6	1

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD122	20-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	701132	mE	
Northing	7515133	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Rare		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia ?deserticola* subsp. *deserticola* low open woodland over *Acacia ancistrocarpa*, and *Acacia tenuissima* tall open shrubland over *Bonamia erecta* and *Sida* sp. low open shrubland over *Triodia ?vanleeuwenii* open hummock grassland.

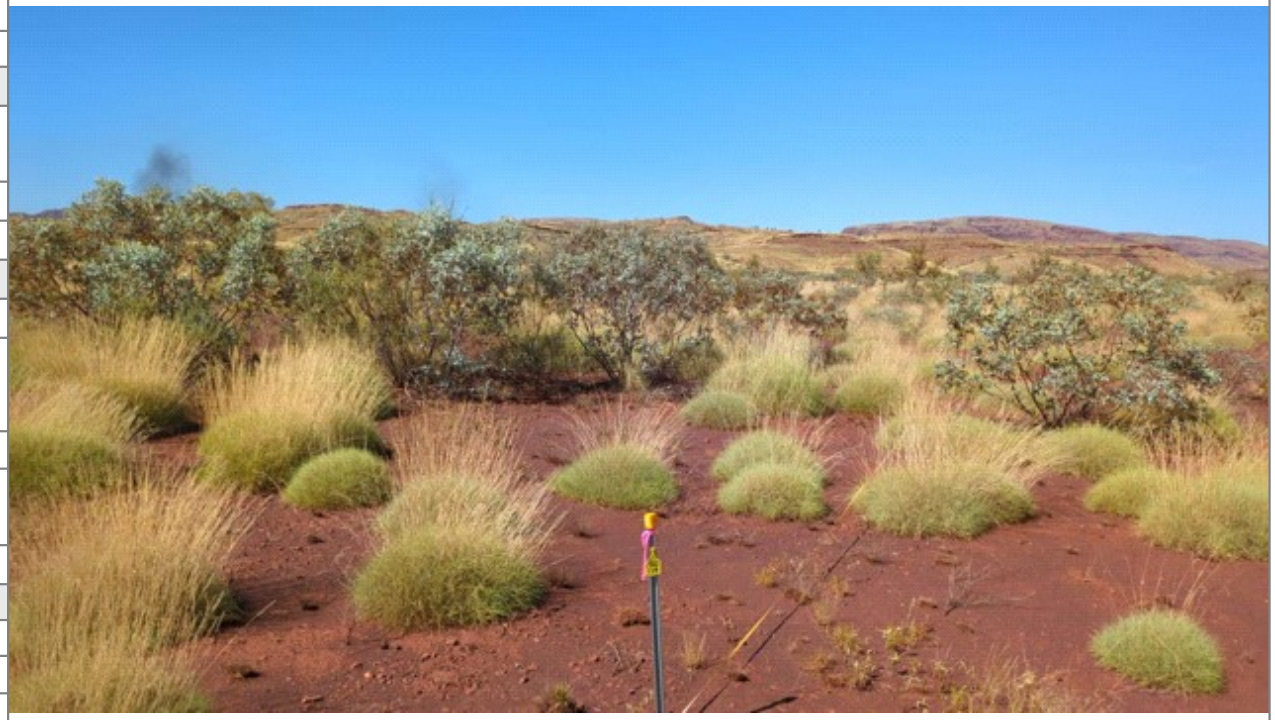
Taxon	Collection Code	Height (m)	Cover (%)
Acacia adsurgens	SGD122-05	1.4	0.1
Acacia ancistrocarpa	=SGD121-08	2.2	3
Acacia synchronicia	NC	1.2	0.1
Acacia tenuissima	SGD122-03	2	1
Anthobolus leptomerioides	=SGD019-04	1.1	0.1
Aristida contorta	=SGD119-02	0.3	0.1
Bonamia erecta	=SGD019-07	0.3	2
Corchorus lasiocarpus subsp. *lasiocarpus*	=SGD017-03	0.3	0.5
Corymbia ?deserticola subsp. *deserticola*	SGD122-02	6	3
Cymbopogon ambiguus	NC	0.3	0.1
Dicrastylis cordifolia	=SGDr020-02	0.6	0.5
Euploca pachyphylla	=SGD124-11	0.2	0.5
Goodenia microptera	=SGD103-08	0.3	0.1
Indigofera monophylla	NC	0.4	0.1
Neurachne muelleri	NC	0.2	0.1
Ptilotus calostachyus	NC	0.4	0.5
Ptilotus exaltatus	NC	0.2	0.1
Scaevola parvifolia subsp. *pilbarae*	SGD122-04	0.4	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.5	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD121-05	0.2	0.1
Sida sp.	NC	0.4	1
Solanum ?phlomoides	NC	0.3	0.1
Triodia ?vanleeuwenii	SGD122-01	0.3	28

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD123	11-03-25	
Dimensions	25 m x 100 m		
Described by	Scott Pansini, Andrew Greenley		
Location (GDA) Zone 50K			
Easting	698088	mE	
Northing	7515900	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	Road access tracks		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Acacia inaequilatera* scattered tall shrubs over *Grevillea wickhamii* ?subsp. open shrubland over *Triodia ?basedowii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia inaequilatera	NC	2.2	1
Acacia pyrifolia var. *pyrifolia*	NC	1.6	0.1
Acacia tenuissima	SGD123-04	1	0.1
Afrohybanthus aurantiacus	NC	0.2	0.1
Aristida ?holathera var. *holathera*	NC	0.4	0.1
Aristida holathera var. *holathera*	=SGD124-10	0.3	0.1
Calytrix carinata	SGD123-01	0.4	0.1
Codonocarpus cotinifolius	NC	1.3	0.1
Corchorus lasiocarpus subsp. *lasiocarpus*	=SGD124-04	0.3	0.1
Corymbia hamersleyana	NC	5	1
Euploca pachyphylla	=SGD124-11	0.2	0.1
Grevillea wickhamii ? subsp.	=SGD124-05	1.7	3
Hakea chordophylla	=SGD124-13	0.5	0.1
Hibiscus sp.	NC	0.1	0.1
Ptilotus calostachyus	NC	0.5	0.5
Ptilotus exaltatus	NC	0.1	0.1
Scaevola parvifolia subsp. *?pilbarae*	SGD123-02	0.2	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.2	0.1
Senna sp.	NC	0.6	0.1
Sida sp.	NC	0.3	0.1
Solanum ?phlomoides	NC	0.3	0.1
Trachymene oleracea subsp. *oleracea*	SGD123-03	0.3	0.1
Tribulus suberosus	NC	0.9	0.1
Triodia ?basedowii	=SGD124-02	0.2	20
Triodia ?epactia/pungens	=SGD124-01	0.5	0.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD124	11-03-25	
Dimensions	25 m x 100 m		
Described by	Andrew Greenley, Scott Pansini		
Location (GDA) Zone 50K			
Easting	697370	mE	
Northing	7515067	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	Road access tracks, Weed invasion		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		



Vegetation Description	*Corymbia hamersleyana* low scattered trees over *Eucalyptus gamophylla* open mallee over *Acacia inaequilatera*, *Grevillea wickhamii* ?subsp. tall open shrubland over *Senna artemisioides* subsp. *helmsii* scattered shrubs over *Triodia* ?*basedowii* and *Triodia* ?*epactia*/*pungens* open hummock grassland over *Eragrostis eriopoda* and **Cenchrus ciliaris* very open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia elachantha	SGD124-08	1.4	0.1
Acacia inaequilatera	NC	2.1	1.5
Aristida ?holathera var. *holathera*	SGD124-06	0.4	0.5
Aristida holathera var. *holathera*	SGD124-10	0.5	0.1
Arivela viscosa	NC	0.3	0.1
**Cenchrus ciliaris*	NC	0.4	1.5
Corchorus lasiocarpus subsp. *lasiocarpus*	SGD124-04	0.2	0.1
Corymbia hamersleyana	NC	2.1	1
Cymbopogon ambiguus	NC	0.6	0.1
Eragrostis eriopoda	NC	0.4	1
Eremophila longifolia	NC	1.6	0.1
Eucalyptus gamophylla	NC	2.2	5
Euphorbia tannensis subsp. *eremophila*	NC	0.3	0.1
Euploca pachyphylla	SGD124-11	0.2	0.1
Euploca sp.	NC	0.1	0.1
Gossypium australe	SGD124-09	0.5	0.1
Grevillea wickhamii ? subsp.	SGD124-05	2.2	1
Hakea chordophylla	SGD124-13	2.2	0.5
Indigofera colutea	NC	0.1	0.1
Indigofera monophylla	NC	0.2	0.1
Ptilotus astrolasius	SGD124-12	0.1	0.1
Ptilotus calostachyus	NC	0.4	0.5
Ptilotus exaltatus	NC	0.1	0.1
Senna artemisioides subsp. *helmsii*	NC	1.1	1
Senna artemisioides subsp. *oligophylla*	NC	1.1	0.5
Tephrosia ?densa	SGD124-14	0.3	0.1
Tribulus ?macrocarpus	SGD124-07	0.1	0.1
Trigastrotheca molluginea	SGD124-03	0.1	0.5
Triodia ?basedowii	SGD124-02	0.3	15
Triodia ?epactia/pungens	SGD124-01	0.4	10

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD125	12-03-25	
Dimensions	50 m x 50 m		
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	701850	mE	
Northing	7510671	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia tumida* var. *pilbarensis* and *Grevillea wickhamii* ?subsp. tall shrubland over **Cenchrus ciliaris* and *Enneapogon lindleyanus* open tussock grassland over *Triodia pungens* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	NC	1.6	0.1
Acacia pyrifolia var. *pyrifolia*	NC	1.8	0.5
Acacia tumida var. *pilbarensis*	NC	3.5	15
Afrohybanthus aurantiacus	NC	0.1	0.1
Aristida inaequiglumis	SGD125-01	0.3	0.1
Arivela viscosa	NC	0.3	0.1
Atalaya hemiglauca	NC	2.5	0.5
**Cenchrus ciliaris*	NC	0.3	20
Corchorus sp.	NC	0.2	0.1
Duperreya commixta	NC	2.1	0.5
Enneapogon lindleyanus	=SGD025-03	0.3	1
Enneapogon polyphyllus	=SGD032-09	0.1	0.1
Eriachne mucronata	=SGD035-08	0.2	0.5
Eriachne pulchella subsp. *pulchella*	NC	0.1	0.1
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.6	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.1	0.1
Gomphrena cunninghamii	NC	0.05	0.1
Gossypium robinsonii	NC	4.2	0.5
Grevillea wickhamii ? subsp.	=SGD025-01	3	2
Hibiscus sturtii var. *platychlamys*	SGD125-04	0.5	0.1
Indigofera monophylla	NC	0.3	0.1
Jasminum didymum subsp. *lineare*	NC	0.8	0.1
Nellica maderaspatensis	NC	0.3	0.1
Paspalidium clementii	=SGD047-13	0.2	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	SGD125-02	0.2	0.1
Santalum lanceolatum	NC	1.9	0.5
Senna artemisioides subsp. *oligophylla*	NC	1.2	0.5
Sida sp.	NC	0.4	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Solanum cleistogamum	=SGD032-08	0.1	0.1
Tephrosia densa	NC	0.9	0.1
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)	=SGD029-02	0.4	0.5
Trigastrotheca molluginea	NC	0.5	0.1
Triodia pungens	=SGD027-01	0.5	20
Waltheria indica	NC	0.5	0.5

Site Type	Site Name	Date	Site Photograph.
Quadrat	SGD126	17-03-25	
Dimensions	50 m x 50 m		
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	717236	mE	
Northing	7504923	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Acacia xiphophylla* tall open scrub over *Lepidium platypetalum* and *Eremophila cuneifolia* low open shrubland over *Triodia vanleeuwenii* scattered hummock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia xiphophylla	NC	3.8	32
Anthobolus leptomerioides	SGD126-04	0.3	0.1
Duperreya commixta	NC	1.8	0.1
Eremophila cuneifolia	NC	0.6	2.5
Jasminum didymum subsp. *lineare*	=SGD071-08	0.2	0.1
Lepidium platypetalum	SGD126-03	0.5	2.5
Maireana planifolia	NC	0.3	0.1
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.2	0.1
Rhagodia eremaea	NC	0.2	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.2	0.1
Triodia vanleeuwenii	SGD126-01	0.3	1
Triodia wiseana	SGD126-02	0.3	0.1

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr001	12-03-25	
Dimensions			
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	700763	mE	
Northing	7507230	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Eucalyptus gamophylla* low open woodland over *Acacia maitlandii* low scattered shrubs over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adoxa var. *adoxa*	=SGD026-02	0.2	0.5
Acacia adoxa var. adoxa x Acacia spondylophylla	SGDr001-01	0.2	0.1
Acacia hilliana	NC	0.2	0.1
Acacia maitlandii	=SGD037-02	0.4	1
Eriachne mucronata	=SGD036-07	0.2	0.1
Eucalyptus gamophylla	=SGD026-09	1.6	2
Eucalyptus leucophloia subsp. *leucophloia*	=SGD026-01	3.1	3
Hakea chordophylla	=SGD026-10	1.4	0.1
Indigofera monophylla	NC	0.2	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus sp.	=SGD028-03	0.4	0.1
Scaevola browniana subsp. *browniana*	=SGD026-07	0.1	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.4	0.1
Senna glutinosa subsp. *glutinosa*	NC	0.5	0.1
Triodia vanleeuwenii	SGDr001-02	0.2	12
Triodia wiseana	=SGD036-02	0.3	4

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr002	12-03-25	
Dimensions			
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	700923	mE	
Northing	7507289	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Acacia spondylophylla* low scattered shrubs over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia adoxa var. adoxa x Acacia spondylophylla	=SGDr001-01	0.1	0.1
Acacia hilliana	NC	0.2	0.5
Acacia maitlandii	=OppJCOR-02-01	0.5	0.5
Acacia spondylophylla	=SGD036-01	0.3	1
Aristida ?holathera var. *holathera*	NC	0.2	0.1
Corchorus crozophorifolius	NC	0.3	0.1
Corymbia hamersleyana	NC	3.2	1
Eucalyptus gamophylla	=SGD026-09	2.2	0.1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD026-01	3.8	2
Gompholobium oreophilum	=SGD026-08	0.3	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	1.9	1.5
Hakea chordophylla	=SGD026-10	2.3	0.5
Lepidium sp.	NC	0.1	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus sp.	=SGD028-03	0.5	0.1
Senna glutinosa subsp. *glutinosa*	NC	0.8	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD031-03	0.3	0.1
Triodia vanleeuwenii	=SGDr001-02	0.2	12
Triodia wiseana	=SGD036-02	0.3	12

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr004	13-03-25	
Dimensions			
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	706172	mE	
Northing	7509524	mS	
Site Characteristics			
Landform	Drainage - Minor Creekline		
Slope	Flat (0º)		
Aspect	N/A		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Corymbia hamersleyana* and *Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia tumida* var. pilbarensis, *Gossypium robinsonii*, and *Petalostylis labicheoides* tall shrubland over *Triodia epactia* open hummock grassland over *Cymbopogon ambiguus* scattered tussock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ancistrocarpa	SGDr004-05	2.1	0.1
Acacia spondylophylla	=SGD036-01	0.3	0.1
Acacia tumida var. *pilbarensis*	SGDr004-03	3.2	1
Aristida ?holathera var. *holathera*	NC	0.3	0.1
Arivela viscosa	NC	0.3	0.1
Corchorus sp.	=SGDr004-02	0.2	0.5
Corymbia hamersleyana	SGDr004-09	4.8	8
Cymbopogon ambiguus	NC	0.8	1
Dampiera candicans	=SGD028-04	0.4	0.1
Dolichocarpa crouchiana	=SGD036-03	0.1	0.1
Enneapogon polyphyllus	NC	0.2	0.1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD026-01	4.5	1
Euphorbia careyi	=OppJCOR-04-01	0.2	0.1
Gompholobium oreophilum	=SGD026-08	0.2	0.1
Goodenia cusackiana	SGDr004-08	0.1	0.1
Goodenia muelleriana	=SGD049-06	0.2	0.1
Gossypium australe	=SGDr004-04	0.9	0.1
Gossypium robinsonii	NC	2.6	4
Grevillea wickhamii ? subsp.	NC	1.8	0.5
Indigofera monophylla	NC	0.2	0.1
Neurachne muelleri	NC	0.3	0.1
Petalostylis labicheoides	SGDr004-01	2.4	7
Ptilotus astrolasius	SGDr004-07	0.2	0.1
Ptilotus exaltatus	NC	0.2	0.1
Santalum lanceolatum	SGDr004-06	2.2	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.6	0.1
Solanum ?phlomoides	NC	0.2	0.1
Tephrosia densa	SGDr004-10	0.4	0.1
Themeda triandra	NC	0.3	0.5
Trichodesma zeylanicum var. *zeylanicum*	NC	0.3	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Triodia epactia	SGDr004-11	0.6	28

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr005	17-03-25	
Dimensions			
Described by	Owen Raynor		
Location (GDA) Zone 50K			
Easting	721777	mE	
Northing	7498021	mS	
Site Characteristics			
Landform	Gorge		
Slope	Low (1-20º)		
Aspect	South		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Recent (0-2 yrs)		
Fire Notes	Dead branches, Fire scar		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Extensive (70%+)		

Vegetation Description	*Corymbia hamersleyana* and *Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Senna venusta* tall shrubland over *Themeda triandra* and *Eriachne lanata* open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon ? sp. Dioicum (A.A. Mitchell PRP 1618)	SGDr005-01	0.5	0.1
Abutilon sp.	=SGD071-05	0.5	0.1
Acacia adoxa var. *adoxa*	=SGD104-03	0.3	0.1
Acacia inaequilatera	=SGD094-07	0.7	0.1
Acacia monticola	=SGD050-13	3.2	0.1
Acacia monticola	SGDr005-03	0.5	0.1
Aristida ?holathera var. *holathera*	NC	0.5	0.1
Aristida sp.	NC	0.4	0.1
Arivela viscosa	NC	0.2	0.1
Atalaya hemiglauca	=SGD071-04	0.3	0.1
Capparis spinosa subsp. *nummularia*	=OppJCOR-04-01	0.4	0.1
Corchorus incanus subsp. *lithophilus*	=SGD072-07	0.4	0.1
Corchorus sp.	=SGDr004-02	0.3	0.1
Corymbia hamersleyana	SGDr005-05	5.4	4
Cucumis variabilis	NC	0.3	0.1
Cymbopogon ambiguus	NC	0.5	0.1
Dampiera candicans	=SGD028-04	0.4	0.1
Dolichocarpa crouchiana	=SGD036-03	0.2	0.1
Eremophila ?jucunda subsp. *pulcherrima*	SGDr005-04	0.8	0.1
Eriachne lanata	=SGD030-01	0.4	1
Eriachne mucronata	=SGD070-06	0.3	0.1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD076-07	3.9	1
Euphorbia biconvexa	NC	0.3	0.1
Euphorbia careyi	=OppJCOR-04-01	0.3	0.1
Gompholobium oreophilum	=SGD026-08	0.7	0.1
Gossypium robinsonii	NC	0.3	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	0.4	0.1
Jasminum didymum subsp. *lineare*	NC	0.6	0.1
Ptilotus fusiformis	SGDr005-06	0.4	0.1
Senna glutinosa subsp. *glutinosa*	=SGD048-02	0.5	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Senna venusta	SGDr005-02	2.1	18
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	=SGD031-03	0.5	0.1
Solanum ?phlomoides	NC	0.4	0.1
Stylobasium spathulatum	NC	0.8	0.1
Themeda triandra	NC	0.4	4
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	0.5
Triodia sp.	NC	0.2	0.5

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr007	19-03-25	
Dimensions			
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	690810	mE	
Northing	7513731	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Corymbia ?deserticola* subsp. *deserticola* low open woodland over *Acacia maitlandii* open shrubland over *Acacia spondylophylla* and *Dampiera candicans* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia maitlandii	=OppJCOR-02-01	1.9	3.5
Acacia pruinocarpa	NC	1.5	0.1
Acacia sericophylla	=SGD107-12	1.3	0.1
Acacia spondylophylla	=SGD036-01	0.4	2
Amphipogon ?sericeus	=JSOR	0.3	0.1
Corymbia ?deserticola subsp. *deserticola*	=mnJCOR-09-01-01	2.6	4
Dampiera candicans	=SGD028-04	0.4	1.5
Dolichocarpa crouchiana	=SGD036-03	0.2	0.1
Eremophila ?jucunda subsp. *pulcherrima*	=mnJCOR-9-2-01	0.4	0.1
Eucalyptus leucophloia subsp. *leucophloia*	SGDr007-04	2.3	0.5
Gompholobium oreophilum	=SGD026-08	0.3	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	0.4	0.5
Pterocaulon sp.	SGDr007-02	0.3	0.1
Ptilotus sp.	=SGD028-03	0.5	0.1
Sida ? sp. Articulation below (A.A. Mitchell PRP 1605)	SGDr007-03	0.9	0.1
Solanum cleistogamum	=SGD073-04	0.1	0.1
Triodia vanleeuwenii	SGDr007-05	0.2	4
Triodia wiseana	SGDr007-01	0.4	23

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr008	19-03-25	
Dimensions			
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	691773	mE	
Northing	7513016	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia ?hamersleyana* low open woodland over *Acacia maitlandii* low open shrubland over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia maitlandii	=OppJCOR-02-01	0.9	2.5
Acacia sericophylla	=SGD107-12	2.9	0.1
Acacia spondylophylla	=SGD036-01	0.4	0.1
Acacia trudgeniana	SGDr008-03	1.3	0.1
Corymbia ?hamersleyana	=SGDr004-09	5.2	2
Eriachne pulchella subsp. *pulchella*	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	=SGD050-01	4.9	4
Gompholobium oreophilum	=SGD026-08	0.4	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	1.4	0.5
Neurachne muelleri	NC	0.3	0.1
Senna artemisioides subsp. *oligophylla*	NC	0.7	0.1
Senna glutinosa subsp. *glutinosa*	=SGD048-02	0.8	0.1
Triodia vanleeuwenii	SGDr008-02	0.2	22
Triodia wiseana	SGDr008-01	0.3	6

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr009	20-03-25	
Dimensions			
Described by	Jac Clark, Owen Raynor		
Location (GDA) Zone 50K			
Easting	707978	mE	
Northing	7512305	mS	
Site Characteristics			
Landform	Plain - Clay/Loam		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	Road access tracks		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Mudstone		
Coarse Surface Particles			
Average Size (mm)	Negligible		
Abundance	Rare		
Exposed Bedrock (%)	Negligible (<5%)		
Vegetation Description	*Eucalyptus gamophylla* low open mallee over *Acacia tenuissima*, *Acacia ancistrocarpa* and *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia pyrifolia* var. *pyrifolia* and *Senna artemisioides* subsp. *oligophylla* open shrubland over *Triodia* ?*basedowii* open hummock grassland.		

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ancistrocarpa	SGDr009-06	2.3	0.5
Acacia bivenosa	NC	2.4	0.5
Acacia dictyophleba	SGDr009-03	2.7	0.1
Acacia pruinocarpa	NC	1.2	0.5
Acacia pyrifolia var. *pyrifolia*	=SGD052-02	1.9	2
Acacia sericophylla	SGDr009-04	2.1	0.1
Acacia tenuissima	SGDr009-02	2.3	3
Afrohybanthus aurantiacus	NC	0.2	0.1
Aristida ?holathera var. *holathera*	NC	0.3	0.1
Corchorus sp.	=SGD090-01	0.3	0.1
Dendrophyllanthus erwinii	SGDr009-07	0.4	0.1
Eragrostis olida	=SGD110-07	0.3	0.1
Eriachne aristidea	=SGD054-04	0.3	0.1
Eucalyptus gamophylla	=SGD026-09	3.4	5
Euploca pachyphylla	=SGD106-03	0.3	0.1
Euploca tanythrix	=SGD110-01	0.2	0.1
Goodenia microptera	=SGD107-07	0.2	0.1
Goodenia muelleriana	=SGD049-06	0.5	0.1
Grevillea wickhamii ? subsp.	=SGD026-13	2.6	0.5
Neurachne muelleri	NC	0.4	0.1
Pterocaulon sphacelatum	NC	0.3	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Ptilotus sp.	=SGD028-03	0.5	0.1
Rhynchosia minima	NC	0.3	0.1
Senna artemisioides subsp. *helmsii*	NC	0.7	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.7	1
Senna notabilis	NC	0.4	0.1
Sida sp.	SGDr009-05	0.4	0.1
Solanum ?phlomoides	NC	0.2	0.1

Taxon	Collection Code	Height (m)	Cover (%)
Tephrosia ?densa	SGDr009-08	0.6	0.1
Trigastrotheca molluginea	=SGD107-01	0.2	0.1
Triodia ?basedowii	SGDr009-01	0.4	24

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr020	11-03-25	
Dimensions			
Described by	Scott Pansini, Andrew Greenley		
Location (GDA) Zone 50K			
Easting	698127	mE	
Northing	7515837	mS	
Site Characteristics			
Landform	Drainage - Flowline		
Slope	Low (1-20º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* low woodland over *Eucalyptus gamophylla* low open mallee over *Acacia tumida* ?var. and *Grevillea wickhamii* ?subsp. open scrub over *Triodia* sp. very open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia tumida ? var.	SGDr020-01	4	50
Afrohybanthus aurantiacus	NC	0.3	0.5
Aristida holathera var. *holathera*	NC	0.3	0.1
Bonamia erecta	SGDr020-03	0.5	0.1
Corchorus crozophorifolius	NC	0.4	0.1
Corymbia hamersleyana	NC	5	10
Dicrastylis cordifolia	SGDr020-02	0.7	0.1
Dodonaea coriacea	SGDr020-05	1.3	0.1
Eucalyptus gamophylla	NC	3	5
Grevillea wickhamii ? subsp.	=SGD124-05	4	15
Indigofera monophylla	NC	0.3	0.1
Maytenus sp. Mt Windell (S. van Leeuwen 846)	SGDr020-04	1.3	0.1
Ptilotus calostachyus	NC	0.4	0.5
Scaevola parvifolia subsp. *?pilbarae*	=SGD123-02	0.3	0.5
Triodia ?epactia/pungens	=SGD124-01	0.5	5

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr021	14-03-25	
Dimensions			
Described by	Scott Pansini, Andrew Greenley		
Location (GDA) Zone 50K			
Easting	707343	mE	
Northing	7504613	mS	
Site Characteristics			
Landform	Incline - Lower Slope		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Acacia hilliana* low shrubland over *Triodia wiseana* hummock grassland.

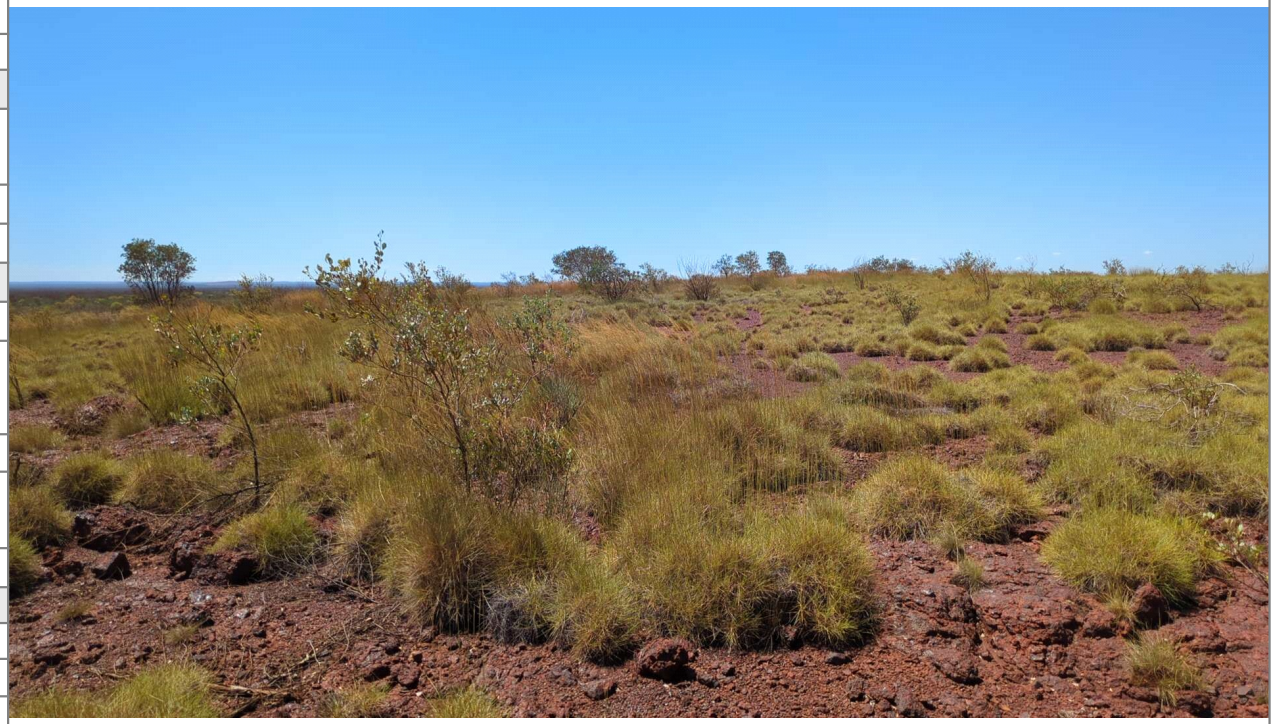
Taxon	Collection Code	Height (m)	Cover (%)
Acacia adoxa var. *adoxa*	=SGD041-03	0.2	0.5
Acacia hilliana	NC	0.3	11
Acacia inaequilatera	NC	1.5	0.1
Acacia maitlandii	NC	1.5	0.5
Acacia monticola	NC	1.4	0.5
Corymbia hamersleyana	NC	5	0.5
Eriachne mucronata	NC	0.3	0.5
Eucalyptus leucophloia subsp. *leucophloia*	NC	5	1
Goodenia stobbsiana	NC	0.1	0.1
Grevillea wickhamii ? subsp.	=SGD124-05	1.3	0.5
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus fusiformis	NC	0.2	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.3	0.1
Triodia wiseana	NC	0.2	20
Triodia wiseana	SGDr021-01	0.3	5

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr022	19-03-25	
Dimensions			
Described by	Scott Pansini, Andrew Greenley		
Location (GDA) Zone 50K			
Easting	690252	mE	
Northing	7515561	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* low open woodland over *Grevillea wickhamii* ?subsp. and *Acacia pyrifolia* var. *pyrifolia* tall open shrubland over *Triodia ?epactia/pungens* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia dictyophleba	=SGD061-02	1.1	0.1
Acacia pyrifolia var. *pyrifolia*	NC	2.1	1
Atalaya hemiglauca	=SGD043-04	1.6	0.1
**Cenchrus ciliaris*	NC	0.4	0.5
Corchorus lasiocarpus subsp. *lasiocarpus*	=SGD017-03	0.3	0.1
Corymbia hamersleyana	NC	6	3
Eremophila longifolia	NC	1.3	0.1
Eriachne mucronata	=SGD055-03	0.3	0.1
Euphorbia tannensis subsp. *eremophila*	NC	0.4	0.1
Euploca pachyphylla	=SGD124-11	0.3	0.1
Grevillea wickhamii ? subsp.	NC	2.3	1.5
Jasminum didymum subsp. *lineare*	NC	0.8	0.1
Ptilotus astrolasius	NC	0.4	0.5
Ptilotus exaltatus	NC	0.4	0.1
Senna artemisioides subsp. *helmsii*	NC	1.2	0.1
Triodia ?epactia/pungens	SGDr022-01	0.7	35

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr023	20-03-25	
Dimensions			
Described by	Scott Pansini, Andrew Greenley		
Location (GDA) Zone 50K			
Easting	707470	mE	
Northing	7513432	mS	
Site Characteristics			
Landform	Undulating Low Hills		
Slope	Low (1-20º)		
Aspect	South-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Moderate (3-5 yrs)		
Fire Notes	Fire scar		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		



Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Acacia pruinocarpa* scattered tall shrubs over *Grevillea wickhamii* ?subsp. scattered shrubs over *Triodia wiseana* open hummock grassland over *Eriachne lanata* scattered tussock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	1.3	0.5
Acacia pruinocarpa	NC	3	1.5
Acacia pyrifolia var. *pyrifolia*	NC	0.9	0.1
Acacia synchronicia	NC	1.4	0.1
Calytrix carinata	=SGD123-01	0.4	0.1
Corymbia hamersleyana	NC	3.5	1
Eriachne lanata	=SGD042-05	0.3	1
Grevillea wickhamii ? subsp.	NC	1.8	1.5
Hakea lorea subsp. *lorea*	=SGD117-02	1.8	0.1
Ptilotus calostachyus	NC	0.5	0.1
Senna glutinosa subsp. *glutinosa*	NC	0.8	0.1
Senna glutinosa subsp. *pruinosa*	NC	1.3	0.1
Triodia wiseana	SGDr023-01	0.4	15

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr060	11-03-25	
Dimensions			
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	697972	mE	
Northing	7511531	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Low (1-20º)		
Aspect	South		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Acacia pruinocarpa* and *Grevillea wickhamii* ?subsp. tall open shrubland over *Acacia spondylophylla* low scattered shrubs over *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	1.9	0.5
Acacia pruinocarpa	NC	5	2
Acacia spondylophylla	NC	0.5	1
Acacia tenuissima	SGDr060-03	1.1	0.1
Aristida holathera var. *holathera*	=SGD044-03	0.2	0.1
Eremophila ?jucunda subsp. *pulcherrima*	SGDr060-02	0.6	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	6	1
Euploca sp.	NC	0.2	0.1
Grevillea wickhamii ? subsp.	SGDr060-01	3	1.5
Psydrax latifolia	NC	1.1	0.1
Ptilotus sp.	NC	0.3	0.1
Triodia wiseana	NC	0.6	28

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr061	12-03-25	
Dimensions			
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	701234	mE	
Northing	7510040	mS	
Site Characteristics			
Landform	Plain - Undulating		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* low open woodland over *Eucalyptus gamophylla* low open mallee over *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	2.5	0.1
Acacia inaequilatera	NC	2	0.5
Acacia pyrifolia var. *pyrifolia*	NC	1.8	0.5
Acacia tumida var. *pilbarensis*	NC	4	0.5
Aristida holathera var. *holathera*	=SGD044-03	0.2	0.1
Corchorus sp.	NC	0.1	0.1
Corymbia hamersleyana	NC	9	3
Eucalyptus gamophylla	NC	2.1	5
Grevillea wickhamii ? subsp.	NC	2.5	0.5
Hakea chordophylla	NC	4	0.1
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.1	0.1
Senna glutinosa subsp. *glutinosa*	NC	0.8	0.1
Trigastrotheca molluginea	NC	0.05	0.1
Triodia pungens	=SGD029-01	0.5	0.1
Triodia wiseana	NC	0.3	25

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr062	13-03-25	
Dimensions			
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	705164	mE	
Northing	7510982	mS	
Site Characteristics			
Landform	Incline - Lower Slope		
Slope	Moderately inclined (21-45º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon lepidum	SGDr062-01	0.3	0.1
Corchorus lasiocarpus ? subsp. *lasiocarpus*	=SGD027-03	0.5	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	8	1
Grevillea wickhamii ? subsp.	NC	4	1
Ptilotus ?clementii	SGDr062-02	0.2	0.1
Ptilotus calostachyus	NC	0.3	0.1
Ptilotus exaltatus	NC	0.2	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	1.8	0.5
Trigastrotheca molluginea	NC	0.1	0.1
Triodia vanleeuwenii	NC	0.2	0.5
Triodia wiseana	NC	0.4	27

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr063	13-03-25	
Dimensions			
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	705564	mE	
Northing	7511036	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Acacia xiphophylla* tall open shrubland over *Eremophila cuneifolia* scattered shrubs over *Triodia wiseana* scattered hummock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia ?aptaneura	SGDr063-01	4	0.1
Acacia xiphophylla	NC	6	7
Eremophila cuneifolia	NC	1.1	1.5
Eremophila latrobei subsp. *filiformis*	NC	1.9	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Maireana sp.	NC	0.1	0.1
Psydrax latifolia	NC	1.7	0.5
Ptilotus calostachyus	NC	0.3	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	NC	1	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	1.5	0.1
Tribulus suberosus	NC	1.5	0.1
Triodia wiseana	NC	0.2	1.5

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr064	14-03-25	
Dimensions			
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	705960	mE	
Northing	7507979	mS	
Site Characteristics			
Landform	Drainage - Flowline		
Slope	Low (1-20º)		
Aspect	East		
Condition			
Vegetation Condition	Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Rare		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* low open woodland over *Acacia tumida* var. *pilbarensis*, *Gossypium robinsonii*, *Petalostylis labicheoides*, and *Atalaya hemiglauca* tall open scrub over *Senna artemisioides* subsp. *oligophylla* scattered shrubs over **Cenchrus ciliaris* and *Themeda triandra* open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.2	0.1
Acacia dictyophleba	NC	0.5	0.1
Acacia monticola	NC	1.8	0.1
Acacia tumida var. *pilbarensis*	NC	3.5	25
Afrohybanthus aurantiacus	NC	0.1	0.1
Androcalva luteiflora	NC	1.5	0.1
Aristida holathera var. *holathera*	=SGD047-11	0.3	0.1
Atalaya hemiglauca	NC	4	2
**Cenchrus ciliaris*	NC	0.6	12
Corymbia hamersleyana	NC	7	5
Dodonaea lanceolata var. *lanceolata*	SGDr064-01	2.2	0.5
Duperreya commixta	NC	1.8	0.5
Eragrostis eriopoda	SGDr064-03	0.3	0.1
Eriachne mucronata	NC	0.2	0.1
Euphorbia biconvexa	NC	0.1	0.1
Gossypium robinsonii	NC	3.5	3
Jasminum didymum subsp. *lineare*	NC	1	0.1
Petalostylis labicheoides	NC	3.5	3
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus exaltatus	NC	0.2	0.1
Ptilotus obovatus var. *obovatus*	NC	0.6	0.1
Rhynchosia minima	NC	0.1	0.1
Santalum lanceolatum	NC	1.8	0.5
Senna artemisioides subsp. *oligophylla*	SGDr064-02	1.5	1
Sida sp.	NC	0.1	0.1
Themeda triandra	NC	0.4	10
Triodia epactia	=SGD051-01	0.6	0.5

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr065	14-03-25	
Dimensions			
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	706001	mE	
Northing	7507924	mS	
Site Characteristics			
Landform	Valley floor		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Acacia inaequilatera* tall open shrubland over *Triodia epactia* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia inaequilatera	NC	4	3
Aristida holathera var. *holathera*	=SGD044-03	0.2	0.1
Bonamia erecta	=SGD044-04	0.3	0.1
**Cenchrus ciliaris*	NC	0.3	0.1
Corymbia hamersleyana	NC	7	1.5
Dodonaea coriacea	SGDr065-02	0.9	0.1
Enneapogon polyphyllus	=SGD032-09	0.1	0.1
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.6	0.1
Neurachne muelleri	NC	0.2	0.1
Ptilotus astrolasius	NC	0.3	0.1
Ptilotus calostachyus	NC	0.3	0.1
Ptilotus exaltatus	NC	0.05	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.5	0.5
Senna glutinosa subsp. *glutinosa*	NC	1.8	0.1
Sida sp.	NC	0.1	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.5	0.1
Triodia epactia	SGDr065-01	0.6	27

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr066	14-03-25	
Dimensions			
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	705931	mE	
Northing	7507848	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* scattered low trees over *Triodia brizoides* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Dolichocarpa crouchiana	NC	0.1	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	5	1.5
Grevillea wickhamii ? subsp.	NC	1.9	0.5
Ptilotus calostachyus	NC	0.5	0.1
Ptilotus sp.	NC	0.1	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.8	0.1
Tribulus suberosus	NC	1	0.1
Triodia brizoides	SGD066r-01	0.3	11
Triodia wiseana	NC	0.3	1

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr067	17-03-25	
Dimensions			
Described by	Eva Spiegl, Daniel Roocke		
Location (GDA) Zone 50K			
Easting	723903	mE	
Northing	7497550	mS	
Site Characteristics			
Landform	Gorge		
Slope	Moderately inclined (21-45º)		
Aspect	North-east		
Condition			
Vegetation Condition	Very Good		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Large rocks (21-60 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Major (50-70%)		

Vegetation Description	*Corymbia ferriticola* , *Eucalyptus leucophloia* subsp. *leucophloia* , and *Atalaya hemiglauca* low open woodland over *Dodonaea pachyneura* , *Grevillea wickhamii* ?subsp. and *Acacia pruinocarpa* tall open shrubland over *Duperreya commixta* very open vineland over *Triodia pungens* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon ? sp. Dioicum (A.A. Mitchell PRP 1618)	SGDr067-07	0.3	0.1
Acacia maitlandii	NC	0.7	0.1
Acacia pruinocarpa	NC	5	1
Acacia pyrifolia var. *pyrifolia*	NC	0.5	0.1
Aristida burbidgeae	SGDr067-02	0.3	0.1
Atalaya hemiglauca	NC	6	1
Capparis spinosa subsp. *nummularia*	NC	1.8	0.1
Capparis spinosa subsp. *nummularia*	NC	1.8	0.1
**Cenchrus ciliaris*	NC	0.6	0.5
Clerodendrum sp.	SGDr067-06	0.7	0.1
Corchorus incanus subsp. *lithophilus*	=SGD080-08	0.2	0.5
Corchorus sp.	NC	0.6	0.1
Corymbia ferriticola	SGDr067-01	8	1
Cucumis variabilis	NC	0.2	0.1
Cymbopogon ambiguus	NC	0.4	0.5
Cyperus cunninghamii subsp. *cunninghamii*	SGDr067-13	0.3	0.1
Dampiera candicans	NC	0.2	0.1
Dodonaea pachyneura	SGDr067-05	2.1	2
Dolichocarpa crouchiana	NC	0.1	0.1
Duperreya commixta	NC	2	2
Enneapogon polyphyllus	SGDr067-11	0.2	0.1
Eremophila longifolia	NC	1.4	0.1
Eriachne mucronata	NC	0.2	0.5
Eucalyptus leucophloia subsp. *leucophloia*	NC	7	1
Euphorbia careyi	=SGD032-16	0.2	0.1
Euphorbia trigonosperma	SGDr067-14	0.2	0.1
Ficus brachypoda	SGDr067-09	0.5	0.1
Gomphrena affinis subsp. *pilbarensis*	SGDr067-10	0.3	0.1
Goodenia stobbsiana	NC	0.1	0.1
Gossypium robinsonii	NC	2.4	0.5

Taxon	Collection Code	Height (m)	Cover (%)
Grevillea wickhamii ? subsp.	SGDr067-08	4	1.5
Hibiscus sp. Mt Robinson (G. Byrne 3537)	=DRopp08-02	0.1	0.1
Jasminum didymum subsp. *lineare*	NC	1	0.1
Paspalidium clementii	=SGD032-03	0.2	0.1
Paspalidium tabulatum	SGDr067-03	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.3	0.1
Ptilotus sp.	NC	0.1	0.1
Ptilotus sp.	SGDr067-12	0.2	0.1
Rhynchosia minima	NC	0.2	0.5
Santalum lanceolatum	NC	1.3	0.1
Senna glutinosa subsp. *glutinosa*	NC	1.5	0.1
Senna venusta	NC	0.4	0.1
Solanum perarmatum	SGDr067-08	0.2	0.1
Stylobasium spathulatum	NC	1.1	0.1
Synostemon hamersleyensis	NC	0.3	0.1
Themeda triandra	=SGD032-13	0.4	0.1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	0.1
Triodia pungens	SGDr067-04	0.3	11
Triumfetta sp.	=SGD095-04	0.2	0.1

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr068	17-03-25	
Dimensions			
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	723865	mE	
Northing	7497667	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	South-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia pruinocarpa* and *Grevillea wickhamii* ?subsp. tall open shrubland over *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pruinocarpa	NC	5	2
Dampiera candicans	NC	0.1	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	7	5
Goodenia stobbsiana	NC	0.1	0.1
Grevillea wickhamii ? subsp.	NC	3.8	1.5
Ptilotus calostachyus	NC	0.4	0.1
Triodia vanleeuwenii	NC	0.2	20

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr069	18-03-25	
Dimensions			
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	688193	mE	
Northing	7514053	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Low (1-20º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Acacia pruinocarpa* scattered tall shrubs over *Acacia spondylophylla* low open shrubland over *Triodia wiseana* and *Triodia vanleeuwenii* hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pruinocarpa	NC	2.2	1.5
Acacia spondylophylla	NC	0.8	3
Corymbia hamersleyana	NC	5	1
Eucalyptus leucophloia subsp. *leucophloia*	NC	8	4
Goodenia sp.	=SGD001-06	0.1	0.1
Goodenia stobbsiana	NC	0.1	0.1
Grevillea wickhamii ? subsp.	=SGDr060-01	2.5	0.5
Hakea chordophylla	NC	2.8	0.5
Petalostylis labicheoides	NC	2.7	0.1
Ptilotus calostachyus	NC	0.5	0.1
Scaevola browniana subsp. *browniana*	SGD100-05	0.1	0.1
Triodia vanleeuwenii	NC	0.2	1
Triodia wiseana	NC	0.5	33

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr070	18-03-25	
Dimensions			
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	689223	mE	
Northing	7513773	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Acacia* sp. (*aneura* complex) and *Acacia pruinocarpa* tall shrubland over *Triodia wiseana* and *Triodia vanleeuwenii* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pruinocarpa	NC	3.5	2
Acacia sp. (aneura complex)	SGDr070-01	6	11
Cheilanthes sieberi subsp. *sieberi*	SGDr070-02	0.05	0.1
Eremophila ?jucunda subsp. *pulcherrima*	=DRopp08-06	0.8	0.1
Eremophila latrobei subsp. *filiformis*	NC	0.8	0.1
Eriachne pulchella subsp. *pulchella*	NC	0.05	0.1
Grevillea wickhamii ? subsp.	=SGDr060-01	1.9	0.1
Hibiscus sp.	NC	0.1	0.1
Petalostylis labicheoides	NC	2.7	0.1
Ptilotus astrolasius	NC	0.3	0.1
Ptilotus exaltatus	NC	0.1	0.1
Ptilotus fusiformis	=SGD081-02	0.1	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	1.9	0.1
Solanum sp.	NC	0.1	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia vanleeuwenii	NC	0.3	1
Triodia wiseana	NC	0.4	20

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr071	19-03-25	
Dimensions			
Described by	Daniel Roocke		
Location (GDA) Zone 50K			
Easting	692708	mE	
Northing	7511235	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Steep (46-75º)		
Aspect	North-west		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	Dead branches		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		
Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* and *Corymbia hamersleyana* low open woodland over *Acacia spondylophylla* scattered low shrubs over *Triodia wiseana* open hummock grassland.		

Taxon	Collection Code	Height (m)	Cover (%)
Acacia maitlandii	NC	0.9	0.1
Acacia spondylophylla	NC	0.4	1.5
Corymbia hamersleyana	NC	4	1
Eucalyptus leucophloia subsp. *leucophloia*	NC	6.5	2
Goodenia stobbsiana	NC	0.1	0.1
Grevillea wickhamii ? subsp.	=SGDr060-01	2.5	0.5
Hakea chordophylla	NC	2.1	0.5
Senna glutinosa subsp. *glutinosa*	NC	0.8	0.1
Triodia wiseana	NC	0.5	28

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr072	19-03-25	
Dimensions			
Described by	Daniel Roocke		
Location (GDA) Zone 50K			
Easting	692340	mE	
Northing	7513171	mS	
Site Characteristics			
Landform	Incline - Hilltop		
Slope	Steep (46-75º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Moderate (30-50%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low woodland over *Grevillea wickhamii* ?subsp. scattered tall shrubs over *Acacia spondylophylla* low open shrubland over *Triodia wiseana* very open hummock grassland over *Eriachne lanata* scattered tussock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia pruinocarpa	NC	0.8	0.1
Acacia spondylophylla	NC	0.5	3
Eriachne lanata	=SGD001-07	0.2	1
Eucalyptus leucophloia subsp. *leucophloia*	NC	8	15
Goodenia cusackiana	SGDr072-01	0.2	0.1
Grevillea wickhamii ? subsp.	=SGDr060-01	2.5	1
Hakea chordophylla	NC	1.5	0.1
Triodia wiseana	NC	0.3	7

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr073	20-03-25	
Dimensions			
Described by	Daniel Roocke		
Location (GDA) Zone 50K			
Easting	698142	mE	
Northing	7511319	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Steep (46-75º)		
Aspect	East		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Small rocks (11-20 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Minor (10-30%)		

Vegetation Description	*Eucalyptus leucophloia* subsp. *leucophloia* low open woodland over *Acacia bivenosa* open shrubland over *Acacia spondylophylla* low scattered shrubs over *Triodia vanleeuwenii* and *Triodia wiseana* open hummock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia bivenosa	NC	1.8	3
Acacia pruinocarpa	NC	1.9	0.1
Acacia spondylophylla	NC	0.7	1
Eriachne mucronata	NC	0.3	0.1
Eucalyptus leucophloia subsp. *leucophloia*	NC	7	3
Grevillea wickhamii ? subsp.	=SGDr060-01	2.8	0.5
Senna glutinosa subsp. *glutinosa*	NC	2.2	0.1
Triodia vanleeuwenii	NC	0.5	22
Triodia wiseana	NC	0.6	5

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr074	20-03-25	
Dimensions			
Described by	Daniel Roocke		
Location (GDA) Zone 50K			
Easting	717951	mE	
Northing	7504505	mS	
Site Characteristics			
Landform	Incline - Mid Slope		
Slope	Moderately inclined (21-45º)		
Aspect	North-east		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Pebbles (5-10 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Limited (5-10%)		

Vegetation Description	*Acacia xiphophylla* tall shrubland over *Eremophila cuneifolia* low open shrubland over *Triodia wiseana* scattered hummock grasses.

Taxon	Collection Code	Height (m)	Cover (%)
Acacia xiphophylla	NC	5	20
Brachyachne sp.	NC	0.05	0.1
Eremophila cuneifolia	NC	0.9	3
Jasminum didymum subsp. *lineare*	NC	0.7	0.1
Ptilotus exaltatus	NC	0.2	0.1
Rhagodia eremaea	NC	1.1	0.5
Salsola australis	NC	0.3	0.1
Sclerolaena cornishiana	SGDr074-01	0.1	0.1
Senna glutinosa subsp. ×*luerssenii*	NC	1.8	0.1
Tribulus suberosus	NC	1	0.1
Triodia vanleeuwenii	NC	0.2	0.1
Triodia wiseana	NC	0.3	1.5

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr075	20-03-25	
Dimensions			
Described by	Daniel Roocke, Eva Spiegl		
Location (GDA) Zone 50K			
Easting	716643	mE	
Northing	7505648	mS	
Site Characteristics			
Landform	Plain - Stony		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Excellent		
Disturbance Type	None discernible		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Very common		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Acacia tumida* var. *pilbarensis* tall shrubland over *Triodia wiseana* and *Triodia pungens* very open hummock grassland over *Ptilotus calostachyus* scattered herbs.

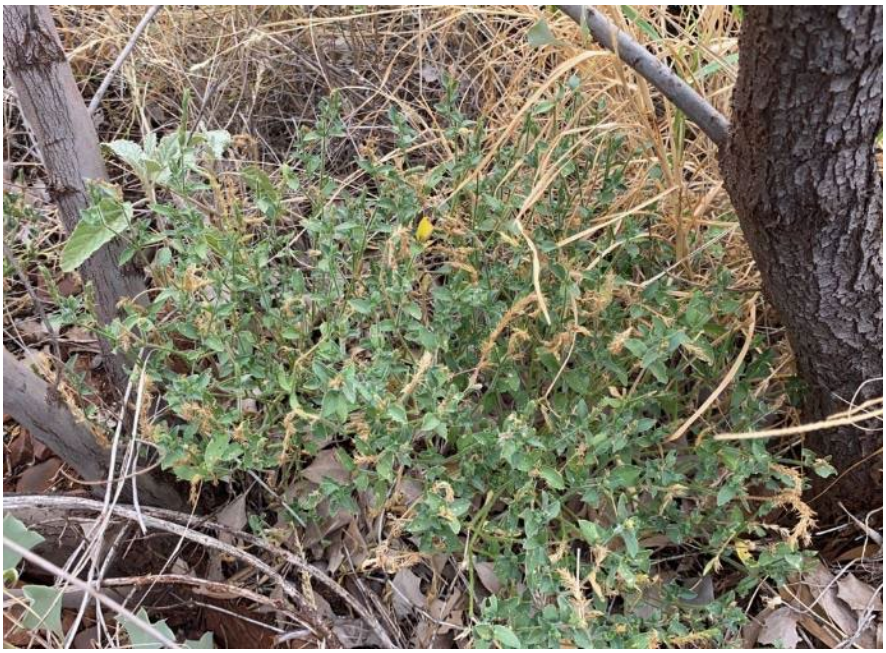
Taxon	Collection Code	Height (m)	Cover (%)
Acacia adsurgens	=SGD087-07	1.7	0.1
Acacia trudgeniana	=SGD087-01	0.3	0.1
Acacia tumida var. *pilbarensis*	NC	3.5	12
Afrohybanthus aurantiacus	NC	0.3	0.5
Corymbia hamersleyana	NC	8	1
Dicrastylis cordifolia	=SGD044-06	0.6	0.1
Eucalyptus gamophylla	NC	1.4	0.1
Euploca sp.	NC	0.3	0.1
Grevillea wickhamii ? subsp.	NC	3.5	0.5
Hakea chordophylla	NC	0.3	0.1
Jasminum didymum subsp. *lineare*	NC	1.6	0.1
Ptilotus astrolasius	NC	0.5	0.1
Ptilotus calostachyus	NC	0.3	1
Ptilotus exaltatus	NC	0.3	0.1
Scaevola parvifolia subsp. *pilbarae*	=SGD098-12	0.3	0.1
Senna glutinosa subsp. *pruinosa*	NC	0.5	0.1
Sida sp.	NC	0.1	0.1
Tephrosia densa	=SGD044-09	0.2	0.1
Triodia pungens	SGDr075-01	0.4	3
Triodia wiseana	NC	0.3	5

Site Type	Site Name	Date	Site Photograph.
Releve	SGDr076	20-03-25	
Dimensions			
Described by	Daniel Roocke		
Location (GDA) Zone 50K			
Easting	717106	mE	
Northing	7505658	mS	
Site Characteristics			
Landform	Drainage - Flowline		
Slope	Low (1-20º)		
Aspect	North		
Condition			
Vegetation Condition	Poor		
Disturbance Type	Weed invasion		
Fire Age (years)	Old (6+ yrs)		
Fire Notes	N/A		
Water Presence	No		
Soils			
Soil Type	Sandy Clay Loam		
Soil Colour	Red/Brown		
Rock Type	Ironstone		
Coarse Surface Particles			
Average Size (mm)	Gravel (1-4 cm)		
Abundance	Moderate		
Exposed Bedrock (%)	Negligible (<5%)		

Vegetation Description	*Corymbia hamersleyana* scattered low trees over *Acacia tumida* var. *pilbarensis* and *Grevillea wickhamii* ?subsp. tall shrubland over *Senna artemisioides* subsp. *oligophylla* open shrubland over *Tephrosia densa* low scattered shrubs over *Triodia epactia* open hummock grassland over **Cenchrus ciliaris* open tussock grassland.

Taxon	Collection Code	Height (m)	Cover (%)
Abutilon sp.	NC	0.2	0.1
Acacia pyrifolia var. *pyrifolia*	NC	1.7	0.5
Acacia tumida var. *pilbarensis*	NC	3.2	10
Afrohybanthus aurantiacus	NC	0.3	0.1
Arivela viscosa	NC	0.5	0.1
Atalaya hemiglauca	NC	2.2	0.1
**Cenchrus ciliaris*	NC	0.5	15
Corchorus ?lasiocarpus subsp. *lasiocarpus*	=SGD035-08	0.4	0.1
Corymbia hamersleyana	NC	8	1.5
Eremophila longifolia	NC	1.3	0.5
Euphorbia tannensis subsp. *eremophila*	=SGD080-16	0.5	0.1
Euploca cunninghamii	=SGD025-04	0.2	0.1
Evolvulus alsinoides var. *villosicalyx*	NC	0.2	0.1
Gossypium robinsonii	NC	2.1	0.1
Grevillea wickhamii ? subsp.	=SGD047-01	3.5	1
Indigofera monophylla	NC	0.4	0.1
Notoleptopus decaisnei	NC	0.1	0.1
Ptilotus calostachyus	NC	0.4	0.1
Ptilotus exaltatus	NC	0.3	0.1
Ptilotus obovatus var. *obovatus*	NC	0.4	0.1
Rhynchosia minima	NC	0.2	0.1
Santalum lanceolatum	NC	1.9	0.1
Senna artemisioides subsp. *oligophylla*	NC	1.3	3
Sida ? sp. spiciform panicles (E. Leyland s.n. 14/8/90)	=SGD082-09	0.5	0.1
Sida sp.	NC	0.2	0.1
Tephrosia densa	NC	0.8	1
Trichodesma zeylanicum var. *zeylanicum*	NC	0.4	0.1
Trigastrotheca molluginea	NC	0.1	0.1
Triodia epactia	=SGDr065-01	0.6	12
Waltheria indica	NC	0.2	0.1

Appendix I Significant Flora Recorded During the Survey

Significant Flora	Photograph (Stantec 2025)
Synostemon hamersleyensis (T: En) Small perennial cladodinous subshrub with wiry light green stems and a waxy cuticle. Inhabits breakaway formations and rock outcrops either side of incised gully systems.	
Rostellularia adscendens var. *latifolia* (P3) Herb or shrub (Undefined). Ironstone soils. Near creeks, rocky hills.	

Significant Flora	Photograph (Stantec 2025)
Eremophila magnifica subsp. *magnifica* (P4) Shrub. Skeletal soils over ironstone. Rocky screees.	
Rhynchosia bungarensis (P4) Compact, prostrate shrub. Pebbly, shingly coarse sand amongst boulders. Banks of flow.	

Significant Flora	Photograph (Stantec 2025)
Corchorus aff. *tectus* (potential new taxon) Small shrub with yellow flowers and green-grey leaves with rounded or gently toothed wavy margins	

Appendix J Threatened and Priority Flora Report Forms

Department of **Biodiversity, Conservation and Attractions**

GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.4 March 2021

Please complete as much of the form as possible, with emphasis on those sections bordered in black. For information on how to complete the form please refer to the Threatened & Priority Flora Report Form (TPRF) manual on the DBCA website at www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities/threatened-plants

TAXON: Eremophila magnifica Chinnock subsp. magnifica **TPFL Pop. No:**

OBSERVATION DATE: 18/03/2025 **CONSERVATION STATUS:** P4 **New population** ☐

OBSERVER/S: Jac Clark, Owen Raynor **PHONE**

ROLE: Botanists **ORGANISATION:** Stantec Australia PTY LTD

EMAIL: Zoe.danon@stantec.com / Taxonomy_flora@stantec.com

DESCRIPTION OF LOCATION (Provide at least nearest town/named locality, and the distance and direction to that place)**:**

Gudai Darri Mine Site - Approx. 230km NW of Newman.

Reserve No:

DBCA DISTRICT: Pilbara **LGA:** East Pilbara Land manager present: ☐

DATUM:
GDA94 / MGA94 ☐
AGD84 / AMG84 ☐
WGS84 ☐
Unknown ☐

COORDINATES: (If UTM coords provided, **Zone** is also required)
DecDegrees ☐ DegMinSec ☐ UTMs ☒
Lat / Northing: See attached data
Long / Easting: See attached data
ZONE: 50

METHOD USED:
GPS ☒ Differential GPS ☐ Map ☐
No. satellites: ____ Map used: _____
Boundary polygon captured: ☐ Map scale: _____

LAND TENURE:
Nature reserve ☐ Timber reserve ☐ Private property ☐ Rail reserve ☐ Shire road reserve ☐
National park ☐ State forest ☐ Pastoral lease ☐ MRWA road reserve ☐ Other Crown reserve ☐
Conservation park ☐ Water reserve ☐ UCL ☐ SLK/Pole _____ to _____ Specify other: _____

AREA ASSESSMENT: Edge survey ☐ Partial survey ☒ Full survey ☐ Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

POP'N COUNT ACCURACY: Actual ☒ Extrapolation ☐ Estimate ☐ Count method: _____
(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps ☐ Clonal stems ☐

TOTAL POP'N STRUCTURE:	**Mature:**	**Juveniles:**	**Seedlings:**	**Totals:**
Alive				
Dead				

Area of pop (m²): _____
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT:	No.	Size	Data attached ☐	Total area of quadrats (m²):
Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal ☐ Vegetative ☐ Flowerbud ☐ Flower ☐
Immature fruit ☐ Fruit ☐ Dehisced fruit ☐ Percentage in flower: _____%

CONDITION OF PLANTS: Healthy ☐ Moderate ☐ Poor ☐ Senescent ☐

COMMENT:

THREATS - type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential Impact (L-E)**	**Potential Threat Onset (S-L)**
•			
•			
•			

Please return completed form to **Species And Communities Program** DBCA,
Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

Record entered by:_____ **Sheet No.:**_____ **Record Entered in Database** ❑

Department of **Biodiversity, Conservation and Attractions**

GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.4 March 2021

HABITAT INFORMATION:

LANDFORM:
Crest ☐
Hill ☐
Ridge ☐
Outcrop ☐
Slope ☐
Flat ☐
Open depression ☐
Drainage line ☐
Closed depression ☐
Wetland ☐

ROCK TYPE:
Granite ☐
Dolerite ☐
Laterite ☐
Ironstone ☐
Limestone ☐
Quartz ☐
Specify other: _____

LOOSE ROCK:
(on soil surface; eg gravel, quartz fields)
0-10% ☐
10-30% ☐
30-50% ☐
50-100% ☐

SOIL TYPE:
Sand ☐
Sandy loam ☐
Loam ☐
Clay loam ☐
Light clay ☐
Peat ☐
Specify other: _____

SOIL COLOUR:
Red ☐
Brown ☐
Yellow ☐
White ☐
Grey ☐
Black ☐
Specify other: _____

DRAINAGE:
Well drained ☐
Seasonally inundated ☐
Permanently inundated ☐
Tidal ☐

Specific **Landform** Element: _____
(Refer to field manual for additional values)

CONDITION OF SOIL: Dry ☐ Moist ☐ Waterlogged ☐ Inundated ☐

VEGETATION CLASSIFICATION*:
Eg: **1**. Banksia woodland (B. attenuata, B. ilicifolia); **2**. Open shrubland (Hibbertia sp., Acacia spp.) ; **3**. Isolated clumps of sedges (M.tetragona)

1. _____
2. _____
3. _____
4. _____

ASSOCIATED SPECIES: _____

Other (non-dominant) spp _____

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formations should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine ☐ Excellent ☐ Very good ☐ Good ☐ Degraded ☐ Completely degraded ☐

COMMENT: _____

FIRE HISTORY: **Last Fire:** Season/Month: _____ Year: _____ **Fire Intensity:** High ☐ Medium ☐ Low ☐ No signs of fire ☐

FENCING: Not required ☐ Present ☐ Replace / repair ☐ Required ☐ Length req'd: _____

ROADSIDE MARKERS: Not required ☐ Present ☐ Replace / reposition ☐ Required ☐ Quantity req'd: _____

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions - include date. Also include details of additional data available, and how to locate it.) _____

FLORA AUTHORISATION / LICENCE No:

FB62000506 & TFL 2223-0108 (J Clark) Note if only observing plants (i.e. no specimens or plant matieral is taken) then no authorisation/licence is required.

For further information on authorisation and licening requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under authorisations/licences should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: _____ WA Herb. ☐ Regional Herb. ☐ District Herb. ☐ Other: _____

LODGEMENT: WA Herb Lodgement No: _____

ATTACHED: Map ☐ Mudmap ☐ Photo ☐ GIS data ☐ Field notes ☐ Other: Data Sheet

COPY SENT TO: Regional Office ☐ District Office ☐ Other: _____

Submitter of Record: Zoe Danon Role: Botanist Signed: _____ Date: 22/05/2025

Please return completed form to **Species And Communities Program** DBCA,
Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

Record entered by:_____ **Sheet No.:**_____ **Record Entered in Database** ❑

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Please complete as much of the form as possible, with emphasis on those sections bordered in black. For information on how to complete the form please refer to the Threatened & Priority Flora Report Form (TPRF) manual on the DBCA website at www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities/threatened-plants

TAXON: Rhynchosia bungarensis **TPFL Pop. No:**

OBSERVATION DATE: 14/03/2025 **CONSERVATION STATUS:** P4 **New population** ☐

OBSERVER/S: Daniel Roocke, Eva Spiegl, Jac Clark, Owen Raynor **PHONE**

ROLE: Botanists **ORGANISATION:** Stantec Australia PTY LTD

EMAIL: Zoe.danon@stantec.com / Taxonomy_flora@stantec.com

DESCRIPTION OF LOCATION (Provide at least nearest town/named locality, and the distance and direction to that place)**:**

Gudai Darri Mine Site - Approx. 230km NW of Newman.

Reserve No:

DBCA DISTRICT: Pilbara **LGA:** East Pilbara Land manager present: ☐

DATUM:
GDA94 / MGA94 ☐
AGD84 / AMG84 ☐
WGS84 ☐
Unknown ☐

COORDINATES: (If UTM coords provided, **Zone** is also required)
DecDegrees ☐ DegMinSec ☐ UTMs ☒
Lat / Northing: See attached data
Long / Easting: See attached data
ZONE: 50

METHOD USED:
GPS ☒ Differential GPS ☐ Map ☐
No. satellites: ____ Map used: _____
Boundary polygon captured: ☐ Map scale: _____

LAND TENURE:
Nature reserve ☐ Timber reserve ☐ Private property ☐ Rail reserve ☐ Shire road reserve ☐
National park ☐ State forest ☐ Pastoral lease ☐ MRWA road reserve ☐ Other Crown reserve ☐
Conservation park ☐ Water reserve ☐ UCL ☐ SLK/Pole _____ to _____ Specify other: _____

AREA ASSESSMENT: Edge survey ☐ Partial survey ☒ Full survey ☐ Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

POP'N COUNT ACCURACY: Actual ☒ Extrapolation ☐ Estimate ☐ Count method: _____
(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps ☐ Clonal stems ☐

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				
Dead				

Area of pop (m²): _____
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached ☐ Total area of quadrats (m²):

Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal ☐ Vegetative ☐ Flowerbud ☐ Flower ☐
Immature fruit ☐ Fruit ☐ Dehisced fruit ☐ Percentage in flower: _____%

CONDITION OF PLANTS: Healthy ☐ Moderate ☐ Poor ☐ Senescent ☐

COMMENT:

THREATS - type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential Impact (L-E)**	**Potential Threat Onset (S-L)**
•			
•			
•			

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Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

Record entered by:_____ **Sheet No.:**_____ **Record Entered in Database** ❑

Department of **Biodiversity, Conservation and Attractions**

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Version 1.4 March 2021

HABITAT INFORMATION:

LANDFORM:
- Crest ☐
- Hill ☐
- Ridge ☐
- Outcrop ☐
- Slope ☐
- Flat ☐
- Open depression ☐
- Drainage line ☐
- Closed depression ☒
- Wetland ☐

ROCK TYPE:
- Granite ☐
- Dolerite ☐
- Laterite ☐
- Ironstone ☒
- Limestone ☐
- Quartz ☐

Specify other: _____

LOOSE ROCK: (on soil surface; eg gravel, quartz fields)
- 0-10% ☐
- 10-30% ☐
- 30-50% ☒
- 50-100% ☐

SOIL TYPE:
- Sand ☐
- Sandy loam ☐
- Loam ☐
- Clay loam ☒
- Light clay ☐
- Peat ☐

Specify other: _____

SOIL COLOUR:
- Red ☒
- Brown ☐
- Yellow ☐
- White ☐
- Grey ☐
- Black ☐

Specify other: _____

DRAINAGE:
- Well drained ☐
- Seasonally inundated ☐
- Permanently inundated ☐
- Tidal ☐

Specific **Landform** Element: _____
(Refer to field manual for additional values)

CONDITION OF SOIL: Dry ☐ Moist ☐ Waterlogged ☐ Inundated ☐

VEGETATION CLASSIFICATION*:

Eg: **1**. Banksia woodland (B. attenuata, B. ilicifolia); **2**. Open shrubland (Hibbertia sp., Acacia spp.) ; **3**. Isolated clumps of sedges (M.tetragona)

1. _____
2. _____
3. _____
4. _____

ASSOCIATED SPECIES: _____

Other (non-dominant) spp _____

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formations should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine ☐ Excellent ☒ Very good ☐ Good ☐ Degraded ☐ Completely degraded ☐

COMMENT: Weeds

FIRE HISTORY: **Last Fire:** Season/Month: _____ Year: _____ **Fire Intensity:** High ☐ Medium ☐ Low ☐ No signs of fire ☐

FENCING: Not required ☐ Present ☐ Replace / repair ☐ Required ☐ Length req'd: _____

ROADSIDE MARKERS: Not required ☐ Present ☐ Replace / reposition ☐ Required ☐ Quantity req'd: _____

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions - include date. Also include details of additional data available, and how to locate it.)

FLORA AUTHORISATION / LICENCE No: FB62000506 & TFL 2223-0108 (J Clark) Note if only observing plants (i.e. no specimens or plant matieral is taken) then no authorisation/licence is required. For further information on authorisation and licening requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under authorisations/licences should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: _____ WA Herb. ☐ Regional Herb. ☐ District Herb. ☐ Other: _____

LODGEMENT: WA Herb Lodgement No: _____

ATTACHED: Map ☐ Mudmap ☐ Photo ☐ GIS data ☐ Field notes ☐ Other: Data Sheet

COPY SENT TO: Regional Office ☐ District Office ☐ Other: _____

Submitter of Record: Zoe Danon Role: Botanist Signed: _____ Date: 22/05/25

Please return completed form to **Species And Communities Program** DBCA,
Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

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TAXON: Rostellularia adscendens var. latifolia **TPFL Pop. No:**

OBSERVATION DATE: 18/03/2025 **CONSERVATION STATUS:** P3 **New population** ☐

OBSERVER/S: Scott Pansini, Andrew Greenley **PHONE**

ROLE: Botanists **ORGANISATION:** Stantec Australia PTY LTD

EMAIL: Zoe.danon@stantec.com / Taxonomy_flora@stantec.com

DESCRIPTION OF LOCATION (Provide at least nearest town/named locality, and the distance and direction to that place)**:**

Gudai Darri Mine Site - Approx. 230km NW of Newman.

Reserve No:

DBCA DISTRICT: Pilbara **LGA:** East Pilbara Land manager present: ☐

DATUM:
GDA94 / MGA94 ☐
AGD84 / AMG84 ☐
WGS84 ☐
Unknown ☐

COORDINATES: (If UTM coords provided, **Zone** is also required)
DecDegrees ☐ DegMinSec ☐ UTMs ☒
Lat / Northing: See attached data
Long / Easting: See attached data
ZONE: 50

METHOD USED:
GPS ☒ Differential GPS ☐ Map ☐
No. satellites: ____ Map used: _____
Boundary polygon captured: ☐ Map scale: _____

LAND TENURE:
Nature reserve ☐ Timber reserve ☐ Private property ☐ Rail reserve ☐ Shire road reserve ☐
National park ☐ State forest ☐ Pastoral lease ☐ MRWA road reserve ☐ Other Crown reserve ☐
Conservation park ☐ Water reserve ☐ UCL ☐ SLK/Pole _____ to _____ Specify other: _____

AREA ASSESSMENT: Edge survey ☐ Partial survey ☒ Full survey ☐ Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

POP'N COUNT ACCURACY: Actual ☒ Extrapolation ☐ Estimate ☐ Count method: _____
(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps ☐ Clonal stems ☐

TOTAL POP'N STRUCTURE:	**Mature:**	**Juveniles:**	**Seedlings:**	**Totals:**
Alive				
Dead				

Area of pop (m²): _____
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT:	No.	Size	Data attached ☐	Total area of quadrats (m²):
Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal ☐ Vegetative ☐ Flowerbud ☐ Flower ☐
Immature fruit ☐ Fruit ☐ Dehisced fruit ☐ Percentage in flower: _____%

CONDITION OF PLANTS: Healthy ☐ Moderate ☐ Poor ☐ Senescent ☐

COMMENT:

THREATS - type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential Impact (L-E)**	**Potential Threat Onset (S-L)**
•			
•			-
•			

Please return completed form to **Species And Communities Program** DBCA,
Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

Record entered by:_____ **Sheet No.:**_____ **Record Entered in Database** ❑

Department of **Biodiversity, Conservation and Attractions**

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Threatened and Priority Flora Report Form

Version 1.4 March 2021

HABITAT INFORMATION:

LANDFORM:
Crest ☐
Hill ☐
Ridge ☐
Outcrop ☐
Slope ☐
Flat ☒
Open depression ☐
Drainage line ☐
Closed depression ☐
Wetland ☐

ROCK TYPE:
Granite ☐
Dolerite ☐
Laterite ☐
Ironstone ☒
Limestone ☐
Quartz ☐
Specify other: _____

LOOSE ROCK:
(on soil surface; eg gravel, quartz fields)
0-10% ☒
10-30% ☐
30-50% ☐
50-100% ☐

SOIL TYPE:
Sand ☐
Sandy loam ☐
Loam ☐
Clay loam ☒
Light clay ☐
Peat ☐
Specify other: _____

SOIL COLOUR:
Red ☐
Brown ☒
Yellow ☐
White ☐
Grey ☐
Black ☐
Specify other: _____

DRAINAGE:
Well drained ☐
Seasonally inundated ☐
Permanently inundated ☐
Tidal ☐

Specific **Landform** Element: _____
(Refer to field manual for additional values)

CONDITION OF SOIL: Dry ☐ Moist ☐ Waterlogged ☐ Inundated ☐

VEGETATION CLASSIFICATION*:
Eg: **1**. Banksia woodland (B. attenuata, B. ilicifolia); **2**. Open shrubland (Hibbertia sp., Acacia spp.) ; **3**. Isolated clumps of sedges (M.tetragona)

1. _____
2. _____
3. _____
4. _____

ASSOCIATED SPECIES: _____

Other (non-dominant) spp _____

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formations should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine ☐ Excellent ☐ Very good ☒ Good ☐ Degraded ☐ Completely degraded ☐

COMMENT: Cenchrus weeds

FIRE HISTORY: **Last Fire:** Season/Month: _____ Year: _____ **Fire Intensity:** High ☐ Medium ☐ Low ☐ No signs of fire ☐

FENCING: Not required ☐ Present ☐ Replace / repair ☐ Required ☐ Length req'd: _____

ROADSIDE MARKERS: Not required ☐ Present ☐ Replace / reposition ☐ Required ☐ Quantity req'd: _____

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions - include date. Also include details of additional data available, and how to locate it.) _____

FLORA AUTHORISATION / LICENCE No: FB62000122-2 & TFL 2223-0005 (S Pansini) Note if only observing plants (i.e. no specimens or plant matieral is taken) then no authorisation/licence is required. For further information on authorisation and licening requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under authorisations/licences should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: _____ WA Herb. ☐ Regional Herb. ☐ District Herb. ☐ Other: _____

LODGEMENT: WA Herb Lodgement No: _____

ATTACHED: Map ☐ Mudmap ☐ Photo ☐ GIS data ☐ Field notes ☐ Other: Data Sheet

COPY SENT TO: Regional Office ☐ District Office ☐ Other: _____

Submitter of Record: Zoe Danon Role: Botanist Signed: _____ Date: 22/05/2025

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RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

Record entered by:_____ **Sheet No.:**_____ **Record Entered in Database** ❑

Appendix K Introduced Flora Recorded Within the Survey Area

Introduced Flora	Photograph
**Aerva javanica* (Kapok Bush) Erect, much-branched perennial, herb, 0.4-1.6 m high. Flowers white, January to October. Often occurs on sandy soils. Along drainage lines.	
**Cenchrus ciliaris* (Buffel Grass) A tufted or sometimes stoloniferous perennial grass between 0.2 m and 1.5 m in height with purple, ciliate flowers between February and October. Seed heads form a dense hairy cylindrical spike to 10 cm long. **Cenchrus ciliaris* favours sand but may also establish in loamy and clayey soils. It is a widespread weed of roadsides, creek lines and river edges.	

Introduced Flora	Photograph
**Cenchrus setiger* (Birdwood grass) Erect, tussocky, stoloniferous perennial, herb or grass-like, to 0.5 m high. Flowers cream purple, April to May. Brown sands, red loam, pindan soils. Sand dunes, plains, rangelands, stony hillsides, floodplains.	
**Euphorbia hirta* (Asthma Plant) Erect or decumbent, much-branched annual, herb, 0.1-0.8 m high. Flowers yellow-green-white, January to October. Alluvial soils. Often along watercourses.	

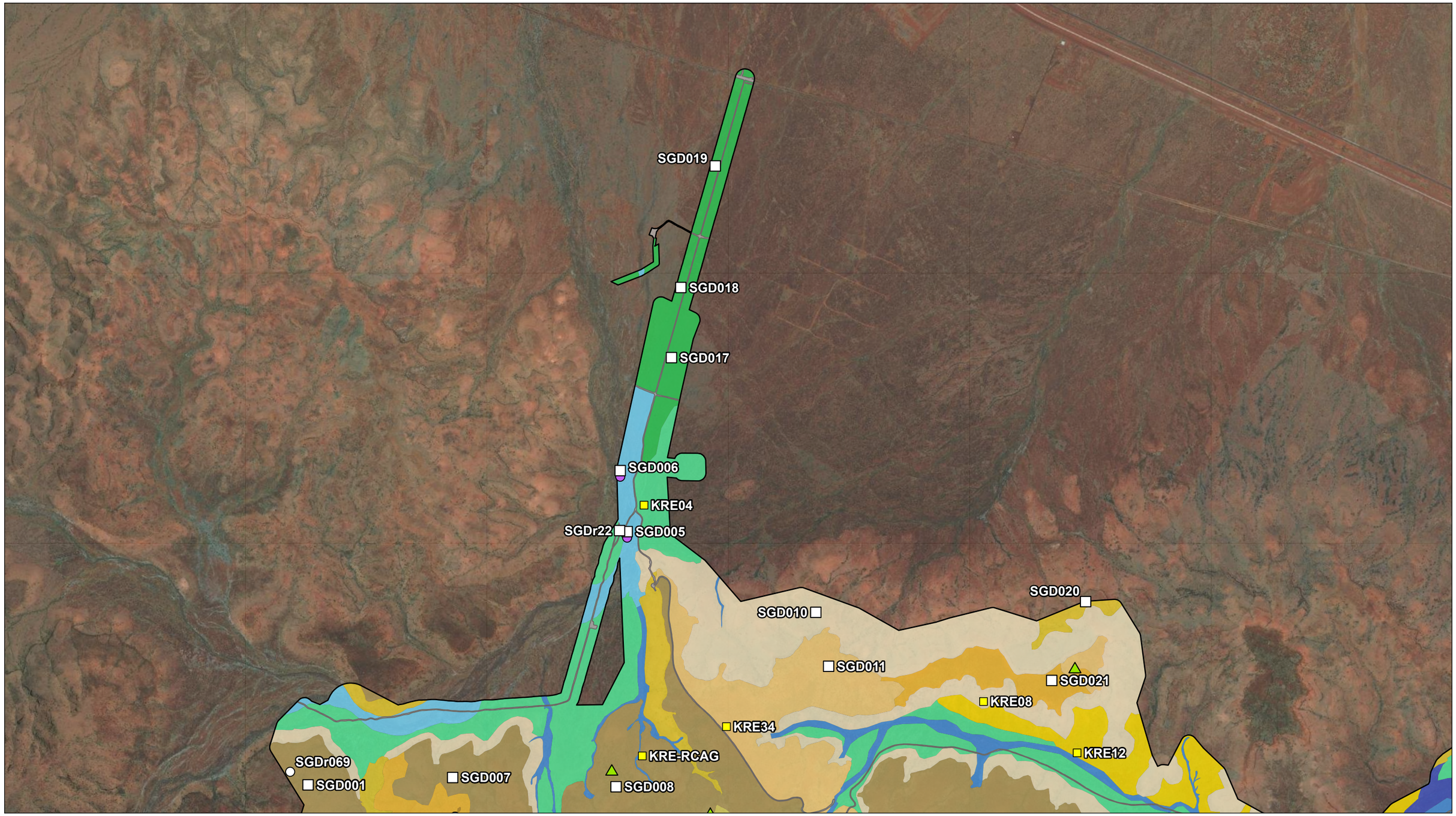
Introduced Flora	Photograph
**Malvastrum americanum* (Spiked Malvastrum) Erect perennial, herb or shrub, 0.5-1.3 m high. Flowers yellow-orange, April to July. Occurs in a variety of soils including gritty alluvial sand, black or brown clay, alluvial cracking clays, limestone and calcrete. Can be found growing on stony ridges and hillsides, floodplains and along drainage lines.	
**Setaria verticillata* (Whorled Pigeon Grass) A loosely tufted annual grass, 0.1 m to 1.3 m high. It flowers from December to June. Grows in sand, clay and loam. It is a common weed of disturbed areas and riverine edges.	

Introduced Flora	Photograph
Previously recorded species: **Bidens bipinnata* (Bipinnate Beggartick) An erect annual herb growing to 1 m high. Produces yellow flowers from March to September. Occurs in a variety of soils including alluvium, clay, loam over sandstone and limestone. Habitat preferences include rivers, creeks, coastal areas and rocky hillsides.	
Previously recorded species: **Erigeron bonariensis* (Flaxleaf Fleabane) Erect herb. Growing to a metre tall. Flowers a creamy white. Frequently seen in disturbed areas.	

Introduced Flora	Photograph
Previously recorded species: **Flaveria trinervia* (Speedy Weed) Herb.	
Previously recorded species: **Lactuca saligna* (Wild Lettuce) Rigid, erect annual or biennial, herb, to 1 m high. Flowers yellow, January to May. Along drainlines.	
Previously recorded species: **Lactuca serriola* forma *serriola* (Prickly Lettuce) Erect, climbing herb (with spiny leaves), to 2 m high. White to brown sand, red loam, brown gravelly loam, black-brown alluvium. Dunes, flats, river banks, valleys, drainage lines.	

Introduced Flora	Photograph
Previously recorded species: **Rumex vesicarius* (Ruby Dock) Erect herb/shrub to 1.2 m tall. Grows in rocky habitats and disturbed ground such as roadsides and windrows.	
Previously recorded species: **Sonchus oleraceus* (Common Sowthistle) Erect annual, herb, to 1.5 m high. Flowers yellow, January to December. Variety of soils. Weed of waste places & disturbed ground.	
Previously recorded species: **Tribulus terrestris* (Caltrop) Prostrate annual, yellow-flowering herb. Often prefers sandy soils.	

Appendix L Vegetation Type Mapping



Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 1 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Survey Area

Site Type
- Quadrat
- Relevé
- Mapping Note
- Previous Survey Sample Sites

Significant Flora Records

Priority 3
- *Rostellularia adscendens* var. *latifolia*

Vegetation Mapping

Plains
- ChEgAiTeTb
- ChGwAppSaoCcTp

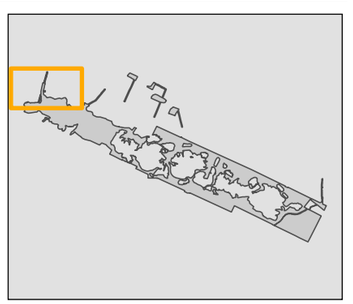
Flowlines
- AtpGwCcTp
- ChAtpPlTp
- EvAtpAppGrCc

Hills
- AaAprTwTv
- ChEgGw/AiTp
- Ch/CddTvTw
- EllChGwAhiAspoTwTv
- EllChGwAspoTw
- EllEgGwHcAspoAhiTv
- EllGwAbTwTv
- EllTeTp

Disturbed
- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Vantor

0 250 500 m
Scale at A3: 1:23,000



Stantec

U:\304501639\gis\mapdocs\304501639_JP.aprx | fig_guda_ff_2024_01_veg_type_series | Last updated 2026-02-18 By: jephipps

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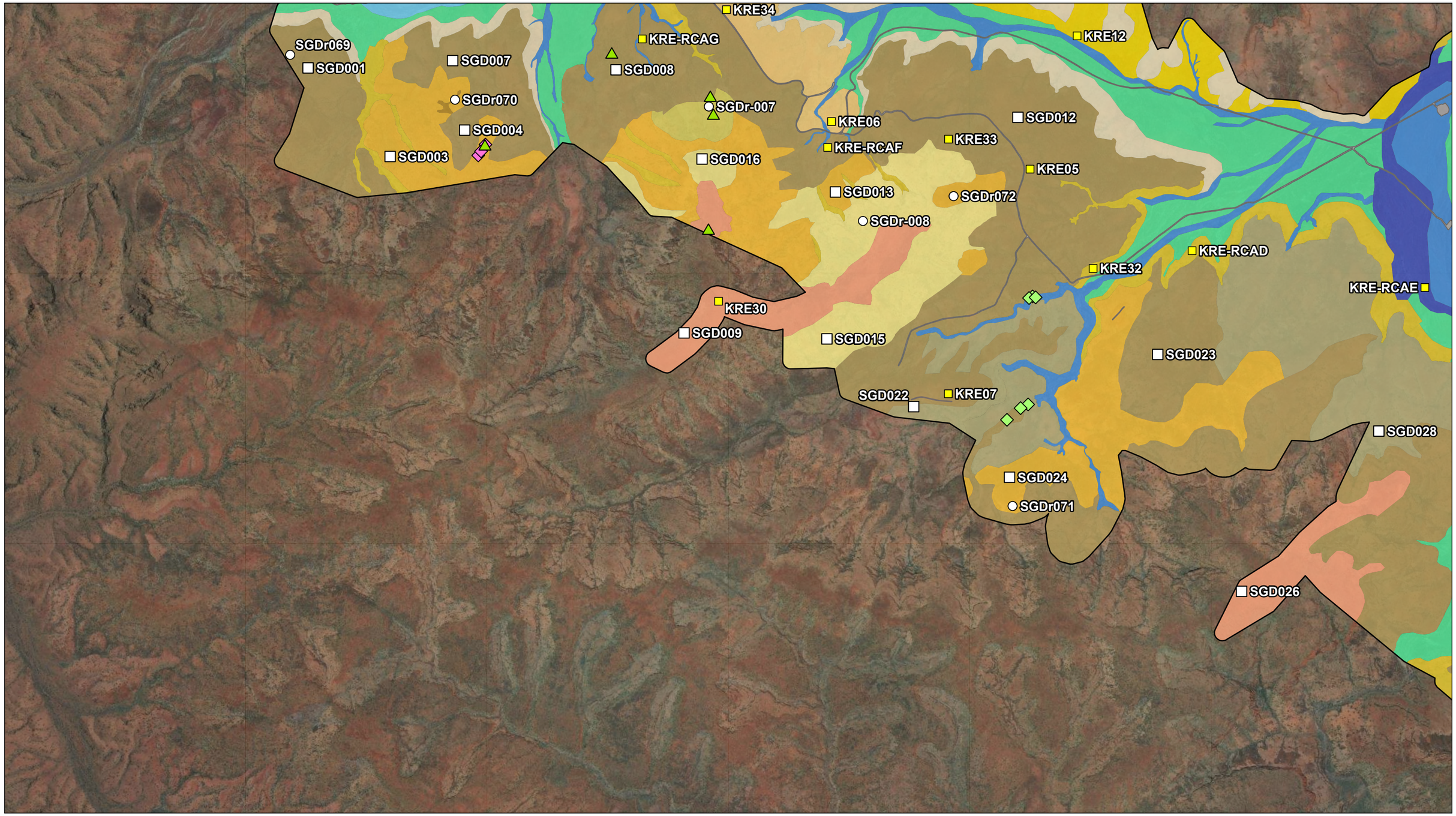


Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 2 of 14

Client: Rio Tinto
Project: 304501639
Project Code: guda_ff_2024_01
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type
- Quadrat
- Relevé
- Mapping Note
- Previous Survey Sample Sites

Significant Flora Records

Priority 4
- *Eremophila magnifica* subsp. *magnifica*
- *Rhynchosia bungarensis*

Vegetation Mapping

Plains
- ChGwAppSaoCcTp

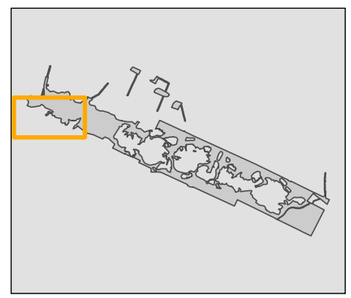
Flowlines
- AtpGwCcTp
- ChAtpPlTp
- EvAtpAppGrCc

Hills
- AaAprTwTv
- ChEgGw/AiTp
- Ch/CddTvTw
- EllChGwAhiAspoTwTv
- EllChGwAspoTw
- EllEgGwHcAspoAhiTv
- EllGwAbTwTv
- EllGwAspoAhiTv
- EllHcAmaiAprAbTv
- EllTeTp
- EllEgEkGwMvTw

Disturbed
- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Vantor

0 250 500 m
Scale at A3: 1:23,000



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SGD121
SGD120
KCW19
SGD123
SGDr20
SGD124
SGD122
KRE09

Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 3 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type
- Quadrat
- Relevé
- Previous Survey Sample Sites

Vegetation Mapping

Plains
- AprAaptPslDpPooTpTsp
- ChAtpGwGrTsp.Tv
- ChEgAiTeTb
- ChGwAppSaoCcTp

Flowlines
- ChAtpPlTp
- EvAtpAppGrCc

Hills
- ChEgAiGwTvTw
- ChEgGw/AiTp
- Ch/CddTvTw
- EllGwAbTwTv
- EllTeTp

Disturbed
- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Vantor

0 250 500 m
Scale at A3: 1:23,000

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KRE09
KOOD49
KRE-RCAE
Q56
KRE10
KOOD41
SGD028
KRE11
SGDr060
Q40
SGD033
SGD027
SGD025
SGDr073
SGD034
KRE01
KRE03
KRE-RCAB
SGD029
KAD07
SGD030
SGD032
KOOD29
KRE-RCAC
SGD125
Q46
Q28
KAD-RPSA
Q38
Q18
KOOD37
SGD031
Q32
SGDr061
KOOD35
SGD035
KRE31
KOOD17
KAD08
KAD06

Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 4 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type
- Quadrat
- Relevé
- Mapping Note
- Previous Survey Sample Sites

Significant Flora Records

Priority 3
- *Rostellularia adscendens* var. *latifolia*
- *Eremophila naaykensii*

Priority 4
- *Rhynchosia bungarensis*

Vegetation Mapping

Plains
- ChGwAppSaoCcTp
- GrGwAtpSlAppSaoPooCcTpTe

Flowlines
- ChAtpPlTp
- ChGwGrAmaiAmonTp
- EvAtpAppGrCc

Gorges
- CfEllAtpGwAprAhTtTeTp

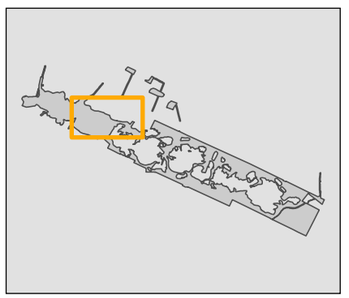
Hills
- AaAprTwTv
- ChEgGw/AiTp
- Ch/CddTvTw
- EllChGwAhiAspoTwTv
- EllChGwAspoTw
- EllEgAhiTvTw
- EllEgGwHcAspoAhiTx
- EllGwAbTwTv
- EllGwAspoAhiTv
- EllHcAmaiAprAbTv
- EllSgpSggGwTbriz
- EllTeTp
- EllEgEkGwMvTw

Disturbed
- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Vantor

0 250 500 m
Scale at A3: 1:23,000

N



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KOOD17
KAD08
KAD06
SGD036
KOD30
SGD037
KOOD05
SGD040
SGDr-002
SGDr-001
SGD042
SGD041

Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 5 of 14

Client: Rio Tinto
Project: 304501639
Project Code: guda_ff_2024_01
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type
- Quadrat
- Relevé
- Mapping Note
- Previous Survey Sample Sites

Significant Flora Records

Priority 3
- *Rostellularia adscendens* var. *latifolia*

Priority 4
- *Rhynchosia bungarensis*

Vegetation Mapping

Plains
- ChGwAppSaoCcTp
- GrGwAtpSlAppSaoPooCcTpTe

Flowlines
- ChAtpPlTp
- ChGwGrAmaiAmonTp

Gorges
- CfEllAtpGwAprAhTtTeTp

Hills
- ChEgAiGwTvTw
- ChEgGw/AiTp
- Ch/CddTvTw
- EllChGwAhiAspoTwTv
- EllChGwAspoTw
- EllEgGwHcAspoAhiTv
- EllGwAaridAspoMvTvTw
- EllGwAbTwTv
- EllGwAspoAhiTv
- EllHcAmaiAprAbTv
- EllSgpSggGwTbriz
- EllTeTp
- EllEgEkGwMvTw

Disturbed
- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 250 500 m
Scale at A3: 1:23,000

N

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SGD119
SGD118
SGD117
SGD116
SGD115
SGD114
SGD113
SGD111
SGD110
SGD112
SGDr23

Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 6 of 14

Client: Rio Tinto
Project: 304501639
Project Code: guda_ff_2024_01
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Survey Area

Site Type
- Quadrat
- Relevé
- Mapping Note

Vegetation Mapping

Plains
- AprAaptPslDpPooTpTsp
- EgAancGwApacAppTb
- EgAancTb

Flowlines
- ChAtpGwGrTeCc

Hills
- ChEgAiGwTvTw
- ChEgGw/AiTp
- Ch/CddTvTw

Disturbed
- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 250 500 m
Scale at A3: 1:23,000

N

Stantec

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SGD114
SGD111
SGD110
SGD112
SGDr23
SGD113
SGDr009
KRE03
KAD07
SGD125
SGD045
SGD044
SGD047
SGDr063
SGDr062
SGD046
SGD053
KAD-RPSA
KOD61
KOD56
SGD043
KOD17
SGD048
KAD08
KAD06
SGD049
SGDr-04

Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 7 of 14

Client: Rio Tinto
Project: 304501639
Project Code: guda_ff_2024_01
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type
- Quadrat
- Relevé
- Mapping Note
- Previous Survey Sample Sites

Significant Flora Records

Priority 3
- *Rostellularia adscendens* var. *latifolia*

Vegetation Mapping

Plains
- AprAaptPslDpPooTpTsp
- AxEcTwTv
- ChEgAiTeTb
- ChGwAppSaoCcTp
- EgAancGwApacAppTb
- GrGwAtpSlAppSaoPooCcTpTe

Flowlines
- ChAtpGwGrTeCc
- ChAtpPlTp

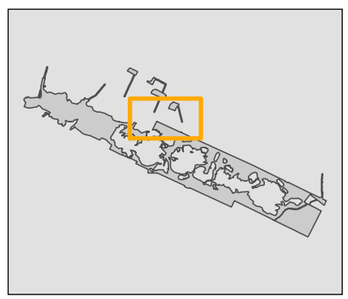
Hills
- AaAprTwTv
- ChEgAiGwTvTw
- ChEgGw/AiTp
- Ch/CddTvTw
- EllGwAaridAspoMvTvTw
- EllGwAbTwTv
- EllHcAmaiAprAbTv

Disturbed
- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 250 500 m
Scale at A3: 1:23,000

N



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KAD08
KAD06
KOD30
SGD048
SGD049
SGDr-04
KOD17
GD14
GD11
GD12
GD27
SGD065
SGD064
KOD29
SGD050
SGD051
SGDr064
SGDr065
SGDr066
GD09
GD07
SGD054
SGD041
GD10
GD08
KOD59
KOD63
KOD16
KOD19
GD01

Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 8 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type
- Quadrat
- Relevé
- Mapping Note
- Previous Survey Sample Sites

Significant Flora Records

Priority 3
- *Rostellularia adscendens* var. *latifolia*

Priority 4
- *Rhynchosia bungarensis*

Vegetation Mapping

Plains
- ChEgAiTeTb
- ChGwAppSaoCcTp
- GrGwAtpSlAppSaoPooCcTpTe

Flowlines
- AtpGwCcTp
- ChAtpGwGrTeCc
- ChAtpPlTp
- ChGwGrAmaiAmonTp

Gorges
- CfEllAtpGwAprAhTtTeTp
- EcrFvvCvTdCcTt

Hills
- AaAprTwTv
- ChEgAiGwTvTw
- ChEgGw/AiTp
- Ch/CddTvTw
- EllChGwAhiAspoTwTv
- EllChGwAspoTw
- EllGwAaridAspoMvTvTw
- EllGwAbTwTv
- EllGwAspoAhiTv
- EllHcAmaiAprAbTv
- EllSgpSggGwTbriz
- EllTeTp

Disturbed
- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 250 500 m
Scale at A3: 1:23,000

N

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GD01
SGD059
SGD058
SGDr21
SGD060
SGD055
SGD057
SGD061
SGD062
SGD063

Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 9 of 14

Client: Rio Tinto
Project: 304501639
Project Code: guda_ff_2024_01
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type

- Quadrat
- Relevé
- Mapping Note
- Previous Survey Sample Sites

Significant Flora Records

Priority 4

- *Eremophila magnifica* subsp. *magnifica*
- *Rhynchosia bungarensis*

Vegetation Mapping

Plains

- GrGwAtpSlAppSaoPooCcTpTe

Flowlines

- AtpGwCcTp
- ChAtpGwGrTeCc
- ChGwGrAmaiAmonTp

Hills

- ChEgAiGwTvTw
- EllChGwAhiAspoTwTv
- EllChGwAspoTw
- EllEgAhiTvTw
- EllGwAaridAspoMvTvTw
- EllGwAspoAhiTv
- EllSgpSggGwTbriz
- EllTeTp
- EllEgEkGwMvTw

Disturbed

- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 250 500 m
Scale at A3: 1:23,000

N

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SGD066
KOD42
KOD22
KOD02
KCC04
KOD36
GD25
KOD41
KOD21
KOD18BANK
KOD18
KOD19
SGD071
SGD087
SGDr075
SGDr076
SGD072B
SGD086
KOD49
SGD070
KOD04
SGD056
SGD052
SGD126
KOD11
KOD44

Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 10 of 14

Client: Rio Tinto
Project: 304501639
Project Code: guda_ff_2024_01
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type
- Quadrat
- Relevé
- Mapping Note
- Previous Survey Sample Sites

Significant Flora Records
Priority 4
- *Rhynchosia bungarensis*

Vegetation Mapping
Plains
- AxEcTwTv
- ChEgAiTeTb
- ChGwAppSaoCcTp
- EgGwTv
- GwhAiTl
- GrGwAtpSlAppSaoPooCcTpTe

Flowlines
- AtpGwCcTp
- ChAtpGwGrTeCc
- ChAtpPlTp
- ChGwGrAmaiAmonTp
- EvAtpAppGrCc

Gorges
- CfEllAtpGwAprAhTtTeTp
- EcrFvvCvTdCcTt

Hills
- AaAprTwTv
- ChEgGw/AiTp
- EllChGwAhiAspoTwTv
- EllGwAaridAspoMvTvTw
- EllGwAbTwTv
- EllHcAmaiAprAbTv
- EllTeTp

Disturbed
- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 250 500 m
Scale at A3: 1:23,000

N

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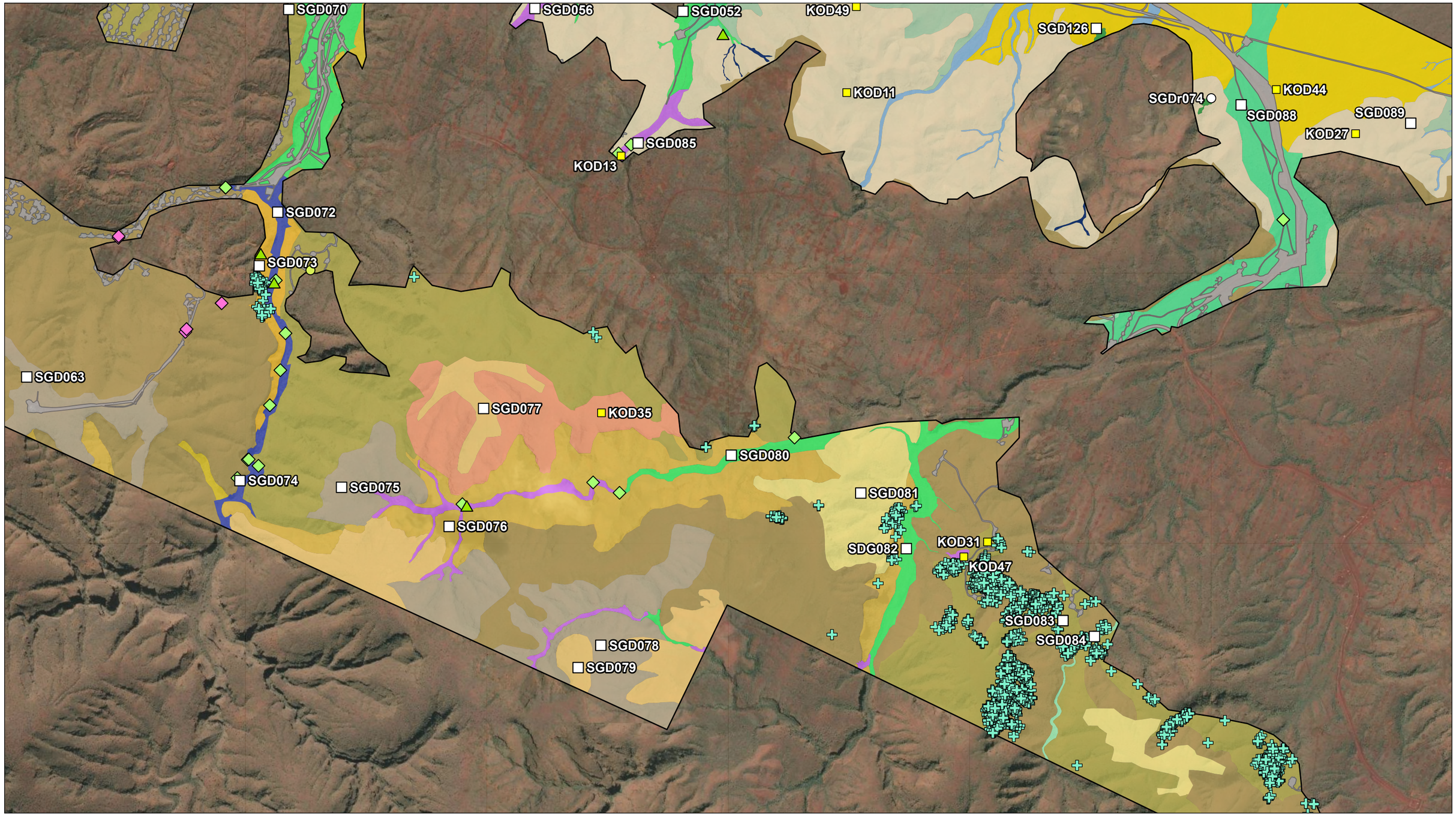


Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 11 of 14

Client: Rio Tinto
Project: 304501639
Project Code: guda_ff_2024_01
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type
- Quadrat
- Relevé
- Mapping Note
- Previous Survey Sample Sites

Significant Flora Records

Threatened
- *Synostemon hamersleyensis*

Priority 3
- *Eremophila naaykensii*

Priority 4
- *Eremophila magnifica* subsp. *magnifica*
- *Rhynchosia bungarensis*

Vegetation Mapping

Plains
- AxEcTwTv
- ChAtpGwGrTsp.Tv
- ChGwAppSaoCcTp
- EgGwTv
- GrGwAtpSlAppSaoPooCcTpTe

Flowlines
- ChAtpGwGrTeCc
- ChGwGrAmaiAmonTp
- EvAtpAppGrCc

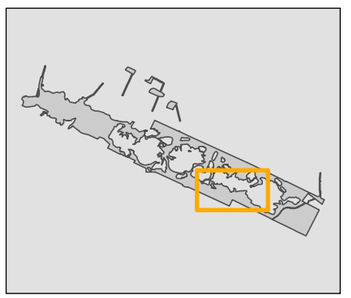
Gorges
- CfEllAtpGwAprAhTtTeTp

Hills
- ChEgGw/AiTp
- EllChGwAhiAspoTwTv
- EllChGwAspoTw
- EllEgAhiTvTw
- EllEgGwHcAspoAhiTv
- EllGwAaridAspoMvTvTw
- EllGwAbTwTv
- EllHcAmaiAprAbTv
- EllSgpSggGwTbriz
- EllTeTp
- EllEgEkGwMvTw

Disturbed
- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 250 500 m
Scale at A3: 1:23,000



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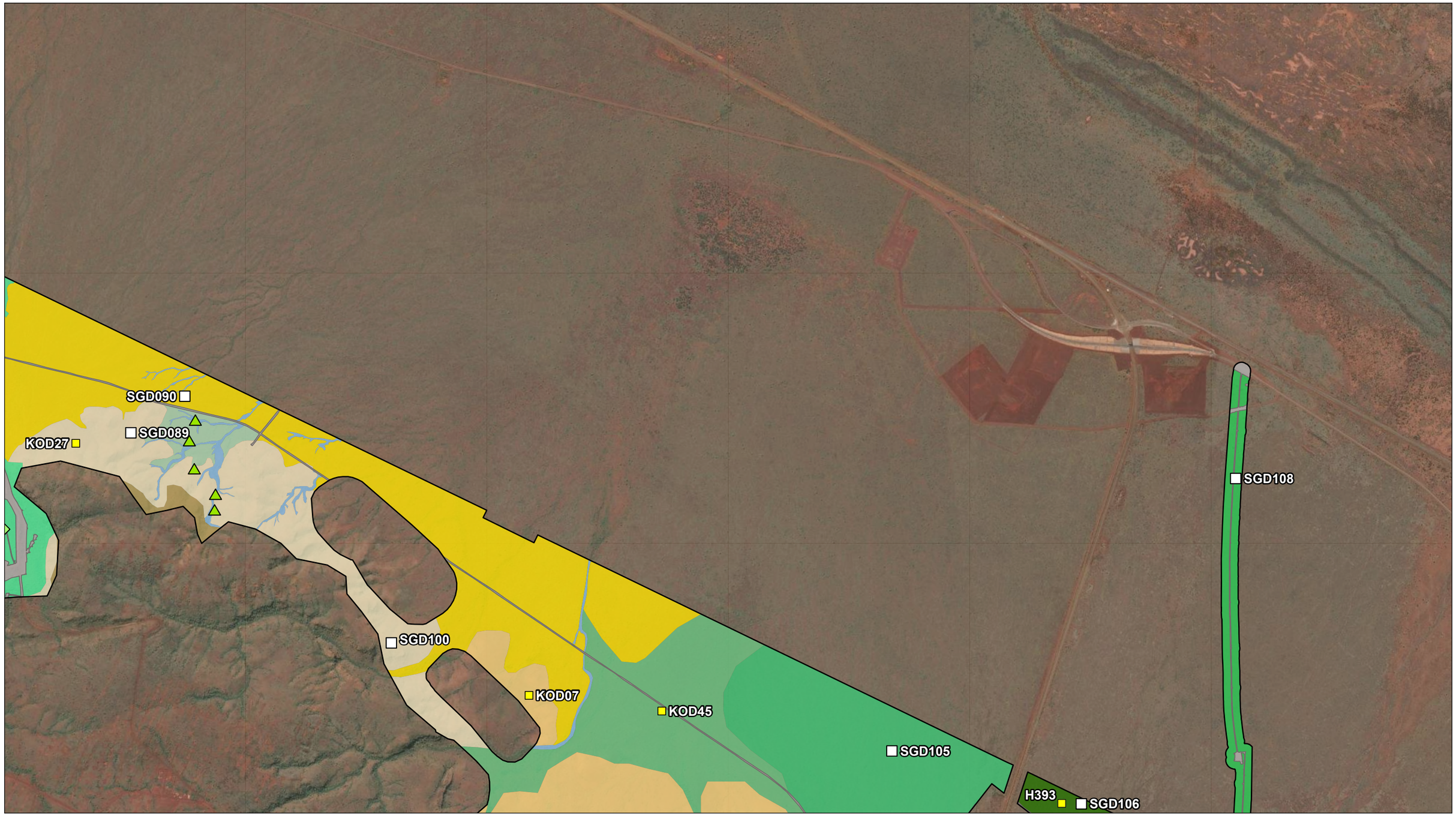

Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 12 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type
- Quadrat
- Mapping Note
- Previous Survey Sample Sites
- Previous Survey Sample Sites

Significant Flora Records

Priority 4
- *Rhynchosia bungarensis*

Vegetation Mapping

Plains
- ChEgAiTeTb
- ChGwAppSaoCcTp
- EgAancGwApacAppTb
- EgGwTv
- GwAserAdTb
- GwhAiTl

Flowlines
- ChAtpGwGrTeCc

Hills
- ChEgGw/AiTp
- EllChGwAhiAspoTwTv
- EllEgGwHcAspoAhiTv
- EllGwAbTwTv

Disturbed
- Disturbed

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 250 500 m
Scale at A3: 1:23,000

N

U:\304501639\gis\mapdocs\304501639_JP.aprx | fig_guda_ff_2024_01_veg_type_series | Last updated 2026-02-18 By: jephipps

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SGD105
H393
SGD106
R56
H395
R54
H399
R53
SGD107
KOD43
KOD-RPA
SGD099
SGD098
KOD40
SGD101
H410
R8
H412
R9
H415
R31
R30
SGD096
H417
H414
SGD095
R10
R10B
H401
H403
SGD103
H404
SGD093
R11
H408
SGD091
H420
H419
H413
SGD102
R45
H407
H406
H421
R44
SGD094
J791
R26BB
SGD097
R25
R22
R51
H422
R23
H423
H425
H429
R37
R47
R47
J792
R48
H342
J781
R49
R43
H424
H387
J788
SGDr-05
H384
J786
H433
H440
H439
SGDr068
H438
SGDr067

Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 13 of 14

Client: Rio Tinto
Project: 304501639
Project Code: guda_ff_2024_01
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type

- Quadrat
- Relevé
- Mapping Note
- Previous Survey Sample Sites
- Previous Survey Sample Sites

Significant Flora Records

Threatened

- *Synostemon hamersleyensis*

Priority 4

- *Acacia bromilowiana*

Vegetation Mapping

Plains

- ChAtpGwGrTsp.Tv
- ChEgAiTeTb
- ChGwAppSaoCcTp
- EgAancGwApacAppTb
- EgAancTb
- EgGwTv
- GwAserAdTb
- GwhAiTl
- GrGwAtpSlAppSaoPooCcTpTe

Flowlines

- AtpGwCcTp
- ChAtpGwGrTeCc
- ChGwGrAmaiAmonTp

Gorges

- CfEllAtpGwAprAhTtTeTp

Hills

- ChEgGw/AiTp
- EllChGwAhiAspoTwTv
- EllChGwAspoTw
- EllEgAhiTvTw
- EllEgGwHcAspoAhiTx
- EllGwAaridAspoMvTvTw
- EllGwAbTwTv
- EllGwAspoAhiTv
- EllHcAmaiAprAbTv
- EllSgpSggGwTbriz
- EllTeTp
- EllEgEkGwMvTw

Disturbed

- Disturbed

Notes:

1. *Map displayed in GDA 1994 MGA Zone 50*
2. *Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).*
3. *Background: Earthstar Geographics*

0 250 500 m

Scale at A3: 1:23,000

N

U:\304501639\gis\mapdocs\304501639_JP.aprx | fig_guda_ff_2024_01_veg_type_series | Last updated 2026-02-18 By: iephipps

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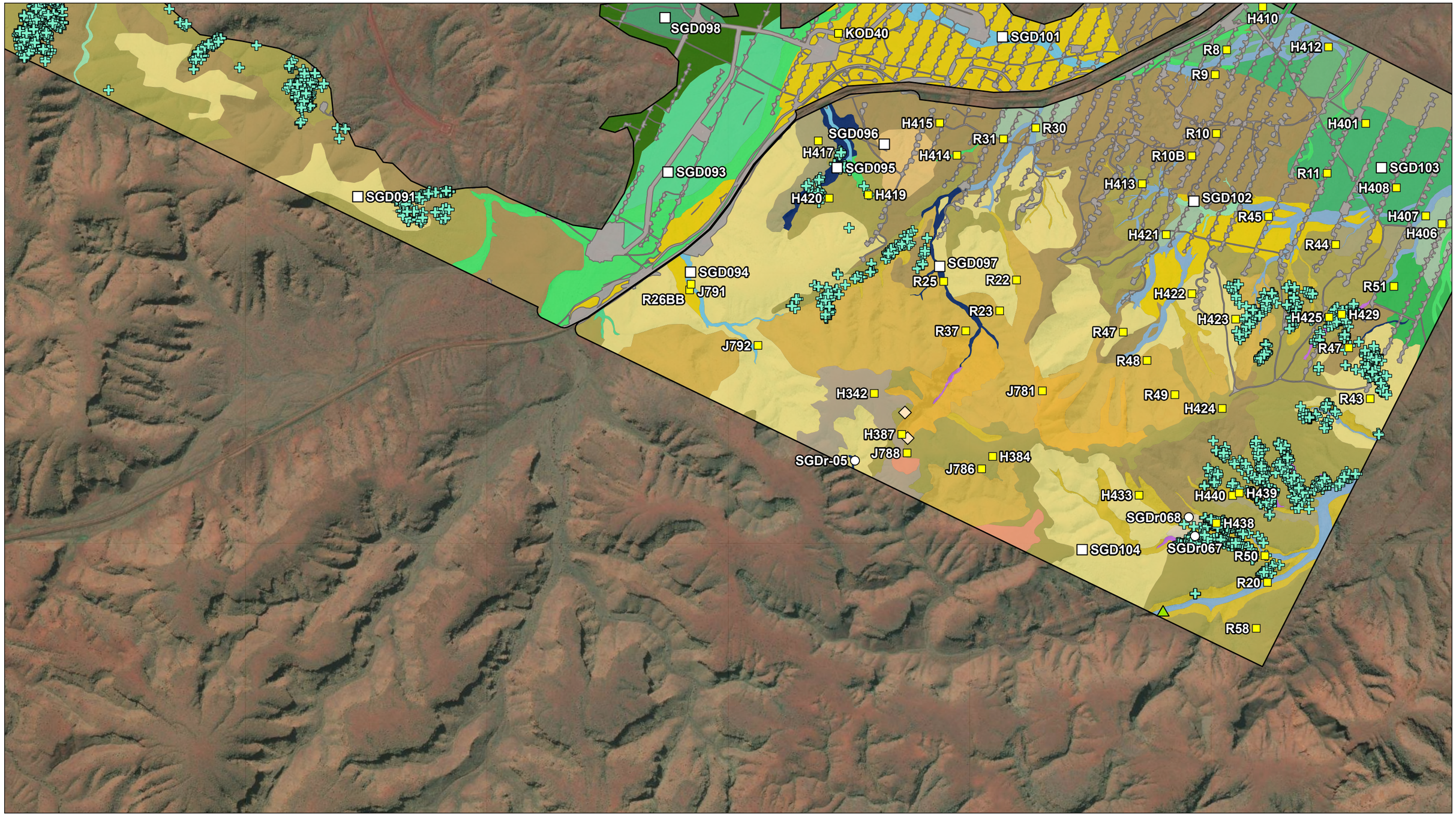

Vegetation Types

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 14 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-18

Stantec

Survey Area

Site Type

- Quadrat
- Relevé
- Mapping Note
- Previous Survey Sample Sites
- Previous Survey Sample Sites

Significant Flora Records

Threatened

- *Synostemon hamersleyensis*

Priority 4

- *Acacia bromilowiana*

Vegetation Mapping

Plains

- ChAtpGwGrTsp.Tv
- ChEgAiTeTb
- ChGwAppSaoCcTp
- EgAancGwApacAppTb
- EgAancTb
- EgGwTv
- GwAserAdTb
- GwhAiTl
- GrGwAtpSlAppSaoPooCcTpTe

Flowlines

- AtpGwCcTp
- ChAtpGwGrTeCc
- ChGwGrAmaiAmonTp

Gorges

- CfEllAtpGwAprAhTtTeTp

Hills

- ChEgGw/AiTp
- EllChGwAhiAspoTwTv
- EllChGwAspoTw
- EllEgAhiTvTw
- EllEgGwHcAspoAhiTv
- EllGwAaridAspoMvTvTw
- EllGwAbTwTv
- EllGwAspoAhiTv
- EllHcAmaiAprAbTv
- EllSgpSggGwTbriz
- EllTeTp
- EllEgEkGwMvTw

Disturbed

- Disturbed

Notes:

1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 250 500 m
Scale at A3: 1:23,000

N

U:\304501639\gis\mapdocs\304501639_JP.aprx | fig_guda_ff_2024_01_veg_type_series | Last updated 2026-02-18 By: iephtps

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Appendix M Vegetation Condition Mapping

688000 690000 692000 694000

7518000 7516000 7514000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 1 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Cenchrus ciliaris*
- **Cenchrus setiger*
- **Malvastrum americanum*
- **Setaria verticillata*

Previous Surveys Species Records

- **Cenchrus ciliaris*
- **Flaveria trinervia*

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Vantor

0 0.5 1 km

Scale at A3: 1:23,000

N

Stantec

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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688000 690000 692000 694000

7514000 7512000 7510000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 2 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Previous Surveys Species Records

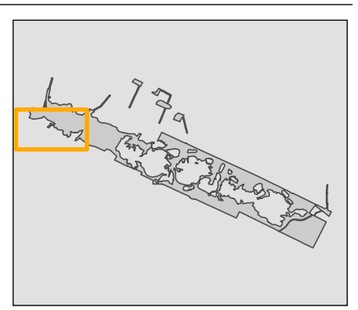
- **Cenchrus ciliaris*
- **Rumex vesicarius*
- **Setaria verticillata*

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Vantor

0 0.5 1 km

Scale at A3: 1:23,000

N



Stantec

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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696000 698000 700000 702000

7518000 7516000 7514000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 3 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Cenchrus ciliaris*

Previous Surveys Species Records

- **Bidens bipinnata*
- **Cenchrus ciliaris*
- **Malvastrum americanum*
- **Setaria verticillata*

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 0.5 1 km

Scale at A3: 1:23,000

N

Stantec

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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696000
698000
700000
702000
7514000
7512000
7510000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 4 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Cenchrus ciliaris*
- **Cenchrus setiger*

Previous Surveys Species Records

- **Bidens bipinnata*
- **Cenchrus ciliaris*
- **Cenchrus setiger*
- **Malvastrum americanum*
- **Rumex vesicarius*
- **Setaria verticillata*

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 0.5 1 km

Scale at A3: 1:23,000

N

Stantec

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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696000
698000
700000
702000
7508000
7506000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 5 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Previous Surveys Species Records

- **Bidens bipinnata*
- **Cenchrus ciliaris*
- **Malvastrum americanum*
- **Setaria verticillata*

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Vantor

0 0.5 1 km

Scale at A3: 1:23,000

N

Stantec

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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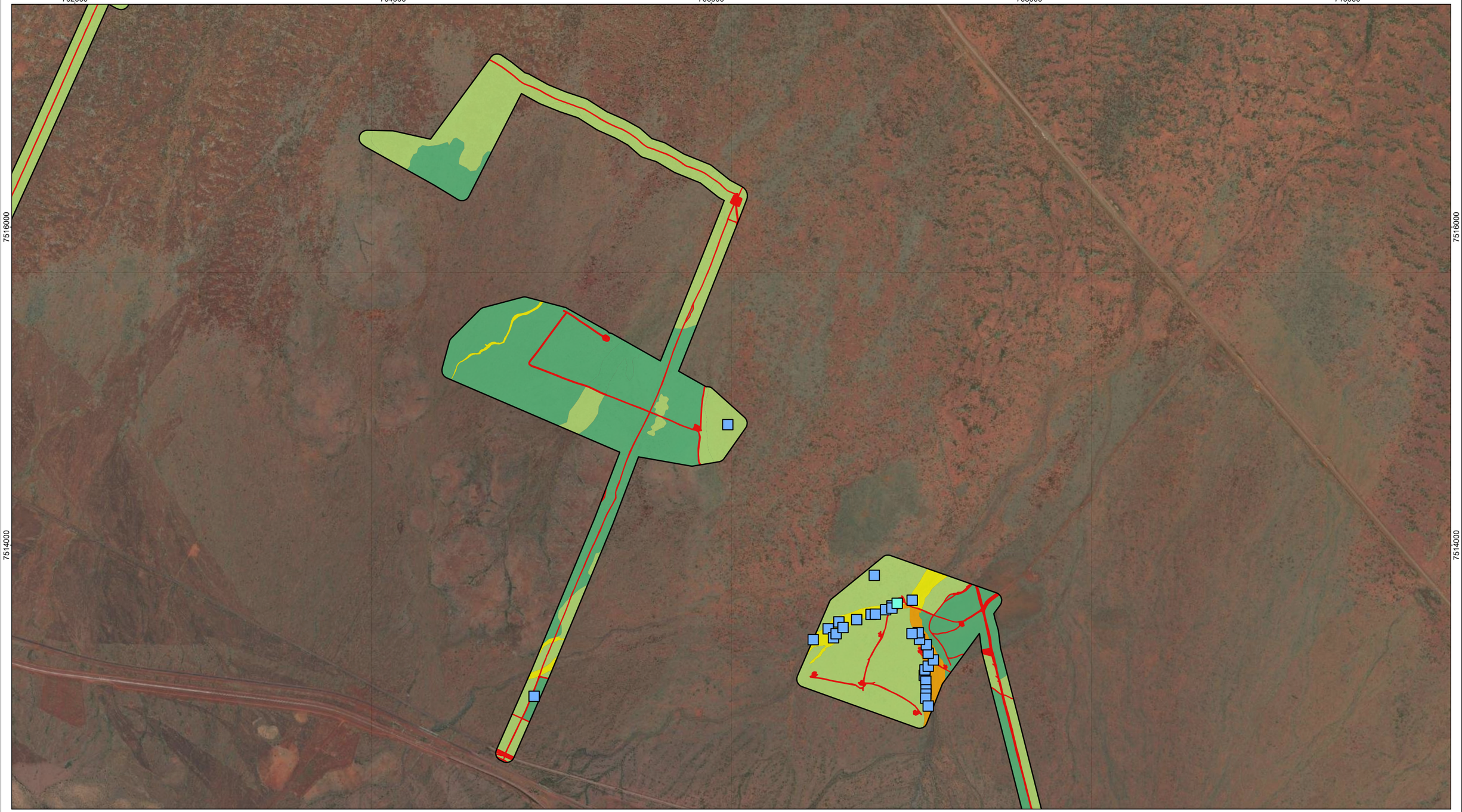


Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 6 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Cenchrus ciliaris*
- **Cenchrus setiger*

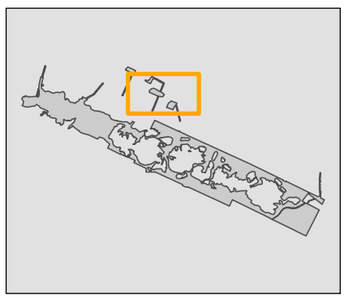
Notes:

1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 0.5 1 km

Scale at A3: 1:23,000

N



Stantec

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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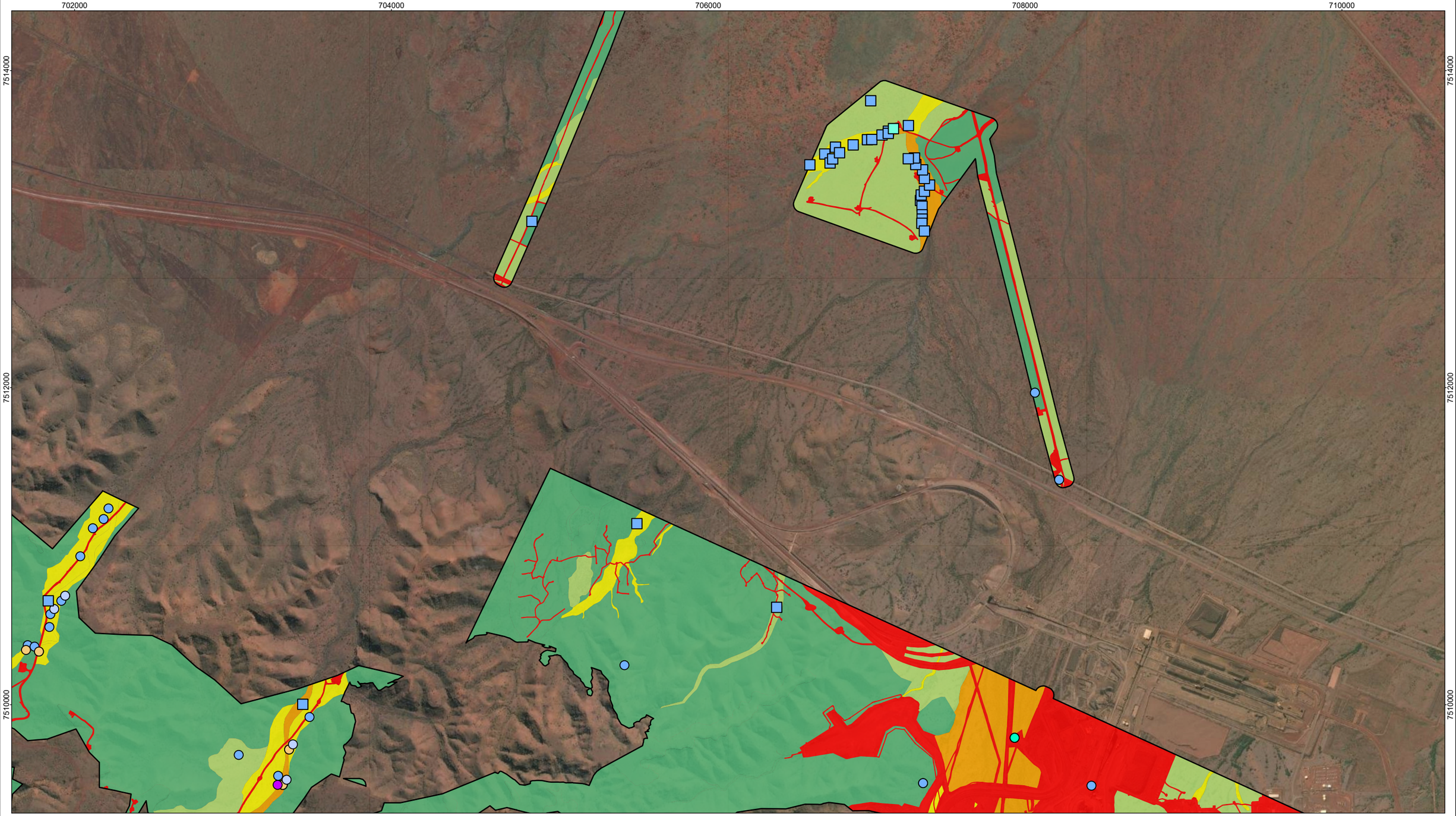


Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 7 of 14

Client: Rio Tinto
Project: 304501639
Project Code: guda_ff_2024_01
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Cenchrus ciliaris*
- **Cenchrus setiger*

Previous Surveys Species Records

- **Bidens bipinnata*
- **Cenchrus ciliaris*
- **Cenchrus setiger*
- **Malvastrum americanum*
- **Setaria verticillata*

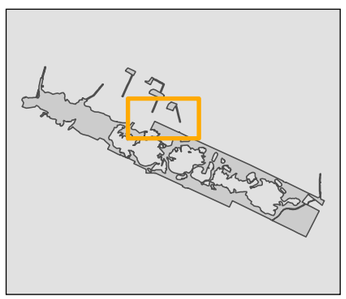
Notes:

1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 0.5 1 km

Scale at A3: 1:23,000

N



Stantec

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704000 706000 708000 710000

7508000

7506000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 8 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Cenchrus ciliaris*

Previous Surveys Species Records

- **Aerva javanica*
- **Bidens bipinnata*
- **Cenchrus ciliaris*
- **Cenchrus setiger*
- **Lactuca serriola*
- **Malvastrum americanum*
- **Rumex vesicarius*
- **Setaria verticillata*

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 0.5 1 km

Scale at A3: 1:23,000

N

Stantec

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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704000
706000
708000
710000
7504000
7502000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 9 of 14

Client: Rio Tinto
Project: 304501639
Project Code: guda_ff_2024_01
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Cenchrus ciliaris*

Previous Surveys Species Records

- **Cenchrus ciliaris*

Notes:

1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 0.5 1 km

Scale at A3: 1:23,000

N

Stantec

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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712000 714000 716000 718000

7508000 7506000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 10 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Stantec

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Aerva javanica*
- **Cenchrus ciliaris*
- **Cenchrus setiger*
- **Euphorbia hirta*
- **Setaria verticillata*

Previous Surveys Species Records

- **Aerva javanica*
- **Bidens bipinnata*
- **Cenchrus ciliaris*
- **Erigeron bonariensis*
- **Lactuca saligna*
- **Lactuca serriola*
- **Malvastrum americanum*
- **Setaria verticillata*
- **Sonchus oleraceus*
- **Tribulus terrestris*

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 0.5 1 km

Scale at A3: 1:23,000

N

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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712000 714000 716000 718000

7504000 7502000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 11 of 14

Client: Rio Tinto
Project: 304501639
Project Code: guda_ff_2024_01
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Stantec

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Aerva javanica*
- **Cenchrus ciliaris*
- **Cenchrus setiger*
- **Setaria verticillata*
- **Setaria verticillata*

Previous Surveys Species Records

- **Bidens bipinnata*
- **Cenchrus ciliaris*
- **Rumex vesicarius*

Notes:
1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 0.5 1 km

Scale at A3: 1:23,000

N

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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720000
722000
724000
726000
7506000
7504000
7502000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 12 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Cenchrus ciliaris*

Previous Surveys Species Records

- **Bidens bipinnata*
- **Cenchrus ciliaris*
- **Flaveria trinervia*

Notes:

1. Map displayed in GDA 1994 MGA Zone 50
2. Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2026).
3. Background: Earthstar Geographics

0 0.5 1 km

Scale at A3: 1:23,000

N

Stantec

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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720000
722000
724000
726000
7502000
7500000
7498000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 13 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

- Excellent (1)
- Very Good (0.8)
- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Cenchrus ciliaris*
- **Cenchrus setiger*

Previous Surveys Species Records

- **Cenchrus ciliaris*
- **Cenchrus setiger*

Notes:

1. Map displayed in GDA 1994 MGA Zone 50
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3. Background: Earthstar Geographics

0 0.5 1 km

Scale at A3: 1:23,000

N

Stantec

U:\304501639\gis\mapdocs\304501639.aprx | fig_guda_ff_2024_01_veg_condition_series | Last updated 2026-02-16 By: dhu

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718000 720000 722000 724000

7500000

7498000

7496000

Vegetation Condition

Gudai-Darri Flora, Vegetation and Fauna Assessment: NVCP

Map 14 of 14

Client: *Rio Tinto*
Project: *304501639*
Project Code: *guda_ff_2024_01*
Drawn By: TV, Checked By: JP, DR
Date: 2026-02-16

Survey Area

Vegetation Condition

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- Good (0.6)
- Poor (0.4)
- Completely Degraded (0.1)

Introduced Species Records (Stantec, 2025)

- **Cenchrus ciliaris*
- **Cenchrus setiger*

Previous Surveys Species Records

- **Cenchrus ciliaris*
- **Cenchrus setiger*

Notes:
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3. Background: Earthstar Geographics

0 0.5 1 km

Scale at A3: 1:23,000

N

Stantec

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