# CPS 6110/6 - Supporting Report

Desktop, Reconnaissance and Targeted Flora, Vegetation and Fauna Habitat assessment – Construction of Water and Monitoring Bores at Paraburdoo

AR-23-17965

27 September 2023



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# Restrictions on use

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# **Document Status**

				Approved for issue		
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# **Executive Summary**

Rio Tinto Iron Ore (Rio Tinto) proposes to install a bore to replace aging historical bores to ensure an ongoing and reliable water supply to Paraburdoo town. The works required under AR-23-17965 consist of the construction of a production bore and monitoring bore on the same pad (Study Area 3 (0.54 ha)).

Study Areas 1 and 2 were surveyed 29<sup>th</sup>-30<sup>th</sup> March 2023. The report results were submitted to the Department of Water and Environmental Regulation (DWER) to support an amendment application to Native Vegetation Clearing Permit (NVCP) Clearing Permit System 6110/6 (CPS 6110/6) on 16 June 2023. It was subsequently identified that Study Area 3 was required to be added to the CPS6110/6 amendment application.

This report is intended as a supporting document to amend CPS 6110/6 to include an additional area (Study Area 3 - 0.54 ha) to enable clearing of native vegetation, as required under Section 51A of the *Environmental Protection Act 1986* (EP Act). The report has been prepared on the basis of a review of existing information for the study area, and a targeted flora, vegetation and fauna habitat survey of the study area.

The study area was surveyed by Rio Tinto Ecologists on the 17<sup>th</sup> of July 2023. No conservation significant flora, vegetation or habitats of specific dependence to BC Act fauna were observed during the survey or are considered likely to occur within the study area.

Based on specialist assessment of the study area it is deemed that the proposed clearing will not be at variance with the 10 clearing principles a-j.

#### 1. Introduction

### 1.1 Project background and study area location

Rio Tinto Iron Ore (Rio Tinto) proposes to install a bore to replace aging historical bores to ensure an ongoing and reliable water supply to Paraburdoo town. The works required under AR-23-17965 consist of the construction of a production bore and monitoring bore on the same pad (Study Area 3 (0.54 ha)).

Study Area 3 comprises of a single polygon totalling 0.54 ha of native vegetation as well as previously cleared tracks within close proximity to the township of Paraburdoo, Western Australia (Figure 1-1). Up to 0.54 hectares of native vegetation clearing is required to support the proposed activities at this location.

The purpose of the current report is as follows:

- To present the results of the desktop study and targeted flora survey of Study Area 3 to support a Native Vegetation Clearing Permit (NVCP) amendment application for CPS 6110/6.
   In which Study Area 3 is proposed to be cleared and therefore required to be added to the NVCP application area.
- 2. To perform a 10 Clearing Principles assessment on Study Area 3 to amend the boundary of CPS 6110/6 to include the study area.

The Wildlife Conservation (Specially Protected Fauna) Notice 2018 has been transitioned under regulations 170, 171 and 172 of the Biodiversity Conservation Regulations 2018 to be the lists of Threatened, Extinct and Specially Protected species under Part 2 of the Biodiversity Conservation Act 2016 (BC Act). For the purpose of having the most up to date information (i.e., accounting for any changes to species listings), this report concerns fauna listed under the BC Act in operation at the time of preparation of this report.

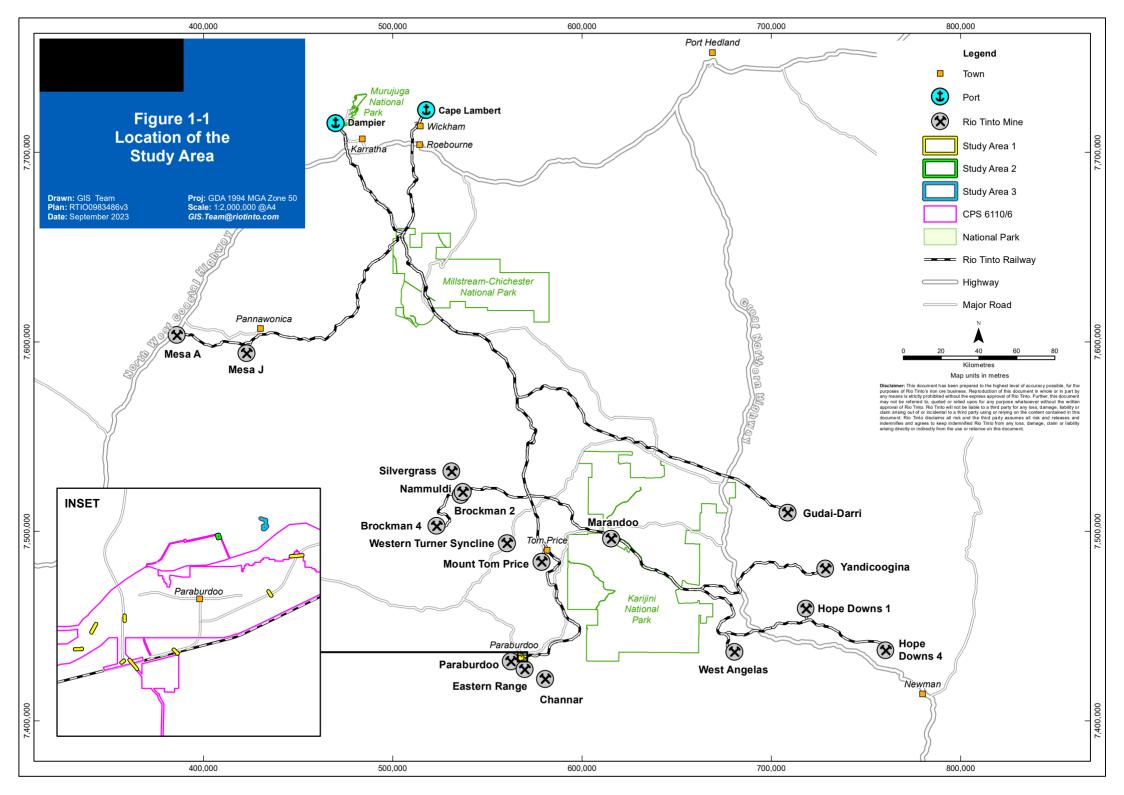
Study Areas 1 and 2 were surveyed 29<sup>th</sup>-30<sup>th</sup> March 2023. The report results were submitted to the Department of Water and Environmental Regulation (DWER) to support an amendment application to NVCP CPS 6110/6 on 16 June 2023. It was subsequently identified that Study Area 3 was required to be added to the CPS6110/6 amendment application.

# 1.2 Scope of survey

This report is intended as a supporting document to amend CPS 6110/6 to include an additional area (0.54 ha) to enable clearing of native vegetation, as required under Section 51A of the *Environmental Protection Act 1986* (EP Act). The report has been prepared on the basis of a review of existing information for the study area, and a targeted flora, vegetation and fauna habitat survey of the study area. This report includes a description of the:

- Local environment of the study area including flora, vegetation, geology, landforms, and hydrology;
- Methods employed during the desktop assessment and field survey;
- Locations and populations of conservation listed flora;
- Vegetation associations occurring in the study area, an assessment on their condition and conservation significance for the locality and sub-region;

- Fauna habitats present, assessment of their significance for the locality and sub-region, including mapping, and likelihood assessment of conservation listed fauna (BC Act); and
- Potential impacts of the proposal on the local environment through assessment of the ten clearing principles, as outlined in Schedule 5 of the *Environment Protection Act 1986* (EP Act).



# 1.3 Constraints and Limitations

Limitations of the current survey of the study area are summarised in Table 1-1.

Table 1-1: Constraints and limitations of the current study

Constraint	Limitation
Sources of information	Parts of the study area had been previously surveyed and relevant reports were available for literature review as part of the desktop assessment. RTIO internal data and external publicly available data were used to complete the remainder of the desktop assessment. Sources of information are not considered a limitation to this study.
Scope of works	The requirements of a fauna desktop assessment and targeted flora and vegetation survey for a clearing permit application were met. Flora, vegetation, and fauna habitat information was assessed and summarised from previous survey reports, available data and a field survey conducted on the 17 <sup>th</sup> July 2023.
Completeness of survey	The study area has been comprehensively surveyed to provide an adequate level of information for this assessment.
Intensity of survey	A targeted flora, vegetation and fauna habitat survey was completed over the entirety of the study area.
Timing, weather, season, cycle	The survey was conducted on the 17 <sup>th</sup> July, which is just outside recommended survey timing for the Eremaean Botanical Province (March – June) as per EPA Technical Guidelines (2016). Rainfall preceding the survey was below average. Therefore, timing, weather etc. could be considered a limitation.
Disturbances	A proportion of the study area (14.82%) has been disturbed by historical clearing for tracks. At the time of survey there was no evidence of fire within the study area.
Resources	The biologists undertaking the desktop assessment and reviews were suitably qualified (> 10 years combined experience conducting environmental surveys within Australia) and a sponsored taxonomist (Steve Dillon) was used to verify flora records following the survey. Resources were not considered to be a limitation in this study.
Accessibility / remoteness	The survey area was completely accessible via road and on foot.  Accessibility/remoteness is not considered to be a limitation.

# 2. Methodology

# 2.1 Desktop assessment

A desktop assessment was undertaken to identify environmental information relevant to the study area. This desktop assessment included a review of:

- Overall site characteristics including:
  - o A review of rainfall data from the closest reliable weather station (BoM 2023);
  - A review of major geological units based on 1:250,000 scale map sheet series (Department of Mines, Industry Regulation and Safety 2022);
  - Surface hydrology and groundwater;
  - o Land systems mapping adapted by van Vreeswyk et al. (2004);
  - Bioregional assessments (including IBRA bioregion, Beard's regional vegetation mapping, pre-European vegetation mapping); and
  - o Conservation areas and environmentally sensitive areas.
- Relevant reports previously prepared for Rio Tinto as outlined as Section 2.1.1
- Databases maintained by state and federal government and Rio Tinto as described at Section 2.1.2

#### 2.1.1 Literature review

A literature review of the study area was conducted and found four flora and fauna related reports either intersecting or within a 2 km buffer of the study area (Figure 2-1).

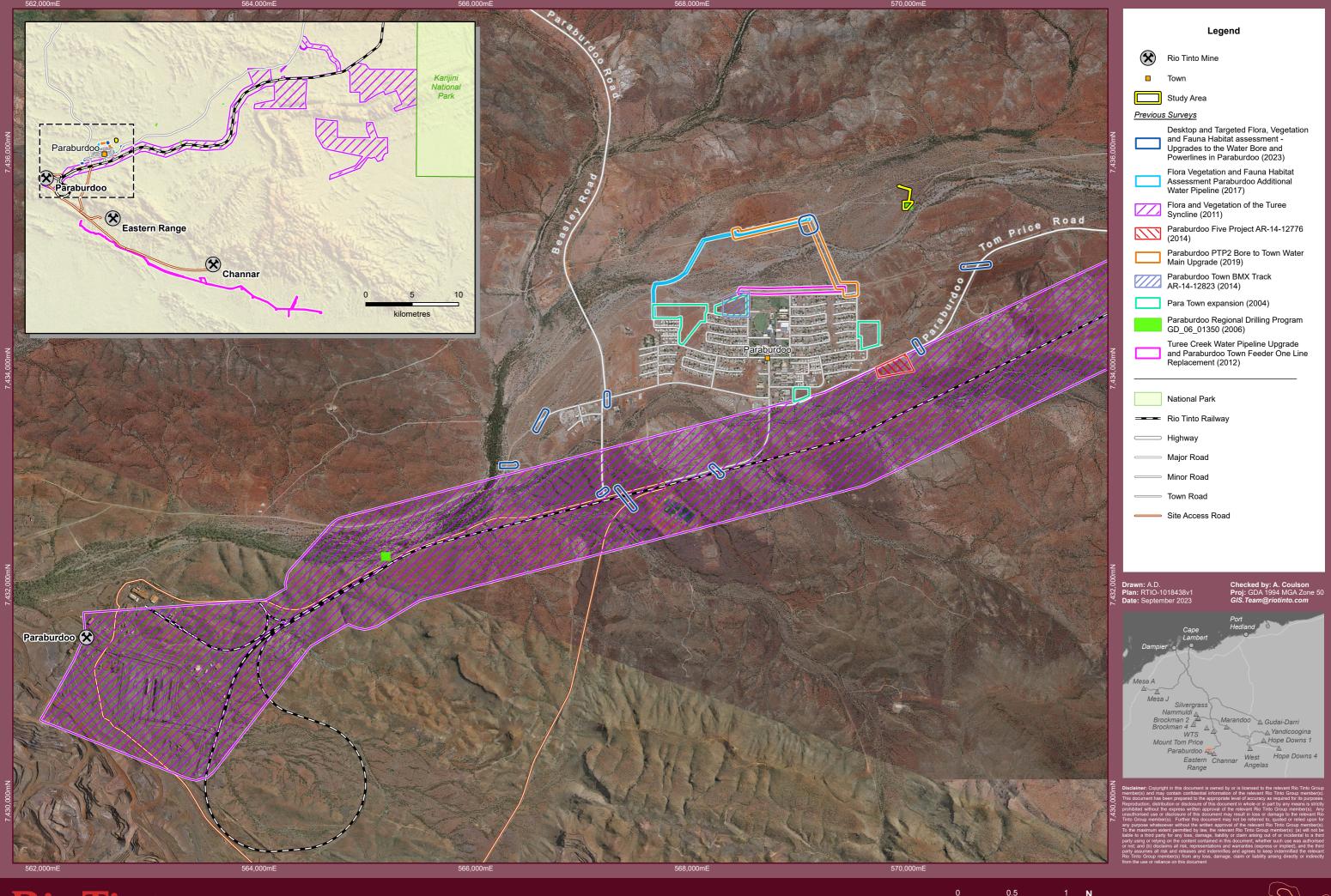
These reports have been consulted as part of the literature review to determine conservation significant species that may occur within the study area, as well as flora, vegetation units, ecological communities and fauna habitats. A summary of the findings of each report utilised in the desktop review is presented in Table 2-1. The previous surveys in relation to the current survey area are shown in Figure 2-1.

Table 2-1: Summary of previous flora, vegetation and fauna reports utilised for the desktop assessment

Report and level of survey	Size (ha)	Number of taxa	Conservation listed flora / fauna recorded	Habitats identified	Weeds	Vegetation / Fauna Habitat of significance
RTIO (2004) Para Town expansion RTIO-HSE-0012841 (Targeted Flora Survey)	19	75	None.	NA	*Aerva javanica *Cenchrus ciliaris *Malvastrum americanum	None
RTIO (2006) Paraburdoo Regional Drilling Program GD_06_01350 RTIO-HSE-0015959 (Targeted Flora Survey)	8.6	99	None.	NA	*Acetisa vesicaria  *Aerva javanica  *Cenchrus ciliaris  *Cenchrus setigerus  *Echinochloa colona  *Malvastrum americanum  *Setaria verticillata	None
Mattiske Consulting (2011) Flora and Vegetation of the Turee Syncline RTIO-HSE-0135817 (Multiple-phase detailed survey)	9,197.5	230	None.	<ul><li>Creeks</li><li>Stony Plain</li><li>Mulga Shrublands</li></ul>	*Acetosa vesicaria *Aerva javanica *Argemone ochruleuca *Bidens pinnata *Cenchrus ciliaris *Cynodon dactylon *Flaveria trinervia *Malvastrum Americanum *Portulaca oleracea *Solanum nigrum *Sonchus oleraceus	None

RTIO (2012) Turee Creek Water Pipeline Upgrade and Paraburdoo Town Feeder One Line Replacement RTIO-HSE-0147662 (Single phase detailed survey)	203.1	195	Two priority flora were recorded:  • Hibiscus campanulatus (A.J. Perkins) (Priority 1)  • Goodenia sp. East Pilbara (A.A. Mitchell PRP 727) (Priority 3)	•	Plain Hill slope Minor drainage line	*Aerva javanica *Cenchrus ciliaris *Cynodon dactylon *Portulaca oleracea *Tamarindus indica	None
RTIO (2014) Metadata Statement – Paraburdoo Five Project AR-14-12276 RTIO-HSE-0240749 (Targeted Flora Survey)	4.1	NA	None		NA	None	None
RTIO (2014) Metadata Statement – Paraburdoo Town BMX Track AR-14- 12823 RTIO-HSE-0240758 (Targeted Flora Survey)	5.3	NA	None		NA	None	None
RTIO (2017) Flora Vegetation and Fauna Habitat Assessment Paraburdoo Additional Water Pipeline – Native Vegetation Clearing Permit – Supporting Document RTIO-HSE-0317979 (NVCP-level survey)	3	NA	None.	•	Creeks Stony Plain	*Cenchrus ciliaris *Aerva javanica	None.

RTIO (2019) Metadata Statement – Paraburdoo PTP2 Bore to Town Water Main Upgrade RTIO-HSE-0331992 (Targeted flora survey)	10.58	NA	None.	NA	*Cenchrus sp.	None.
RTIO (2023) Desktop, Reconnaissance and Targeted Flora, Vegetation and Fauna Habitat assessment – Upgrades to the Water Bore and Powerlines in Paraburdoo AR-20-15923 and AR-21- 16545	10.3	34	None	Alluvial Plain	*Aerva javanica *Cenchrus ciliaris *Cynodon dactylon *Cenchrus setigerus *Malvastrum americanun	None
(Targeted flora survey and NVCP-level survey)						





#### 2.1.2 Database searches

The Department of Biodiversity, Conservation and Attractions (DBCA) and WA Museum's (WAM) NatureMap database was reviewed for Threatened and Priority Flora and Threatened and Priority Fauna (EPBC Act and BC Act) that have the potential to utilise the habitats present within the study area. The Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) administered EPBC Act Protected Matters Search Tool (PMST) was also reviewed for Matters of National Environmental Significance (MNES) listed under the EPBC Act including Threatened flora and fauna and Threatened Ecological Communities (TECs) (DCCEEW 2023).

Spatial data for conservation significant flora and fauna held and maintained by Rio Tinto was also reviewed as part of the desktop study (Rio Tinto Flora and Fauna Database). Any Environmentally Sensitive Area (ESA), Reserves and/or conservation areas within or surrounding the study area were identified using relevant GIS layers held by Rio Tinto. A buffer of 20 km from the study area boundary was used for the NatureMap, Rio Tinto and Protected Matters search tool (PMST) database searches. Result outputs of NatureMap and PMST searches undertaken are presented in Appendix 1 and 2 and summarised in sections 3.9 and 3.10.

#### 2.2 Likelihood of occurrence assessment

#### 2.2.1 Flora

The results of the database searches were used to create a list of conservation significant flora (BC Act and priority flora) previously recorded or with potential to occur within the study area. The likelihood of conservation significant flora occurring within the study area were assessed through consideration of available habitats in the study area and each species' ecology.

The likelihood of conservation significant flora species occurring within study areas were determined prior to the field survey based on the location of database records, availability of potentially suitable habitat and knowledge of the species ecology (section 3.9.2). This list was then updated following the field survey to better reflect the habitats observed.

#### 2.2.2 Fauna

A likelihood of occurrence assessment was performed to identify habitats within the study area for which fauna listed under the current BC Act may have specific dependence (DBCA, 2018b). For the purpose of this study, 'specific dependence' is defined as core habitat including roosting, denning, shelter and breeding habitat.

The likelihood of conservation significant fauna species (BC Act) occurring within the study area was determined prior to the field survey based on the location of database records, availability of potentially suitable habitat and knowledge of the species ecology (section 3.10.2). This list was then updated following the field survey to better reflect the habitats. Exclusively marine fauna were excluded from the likelihood assessment as the study area does not contain marine habitat and is therefore not able to support these species.

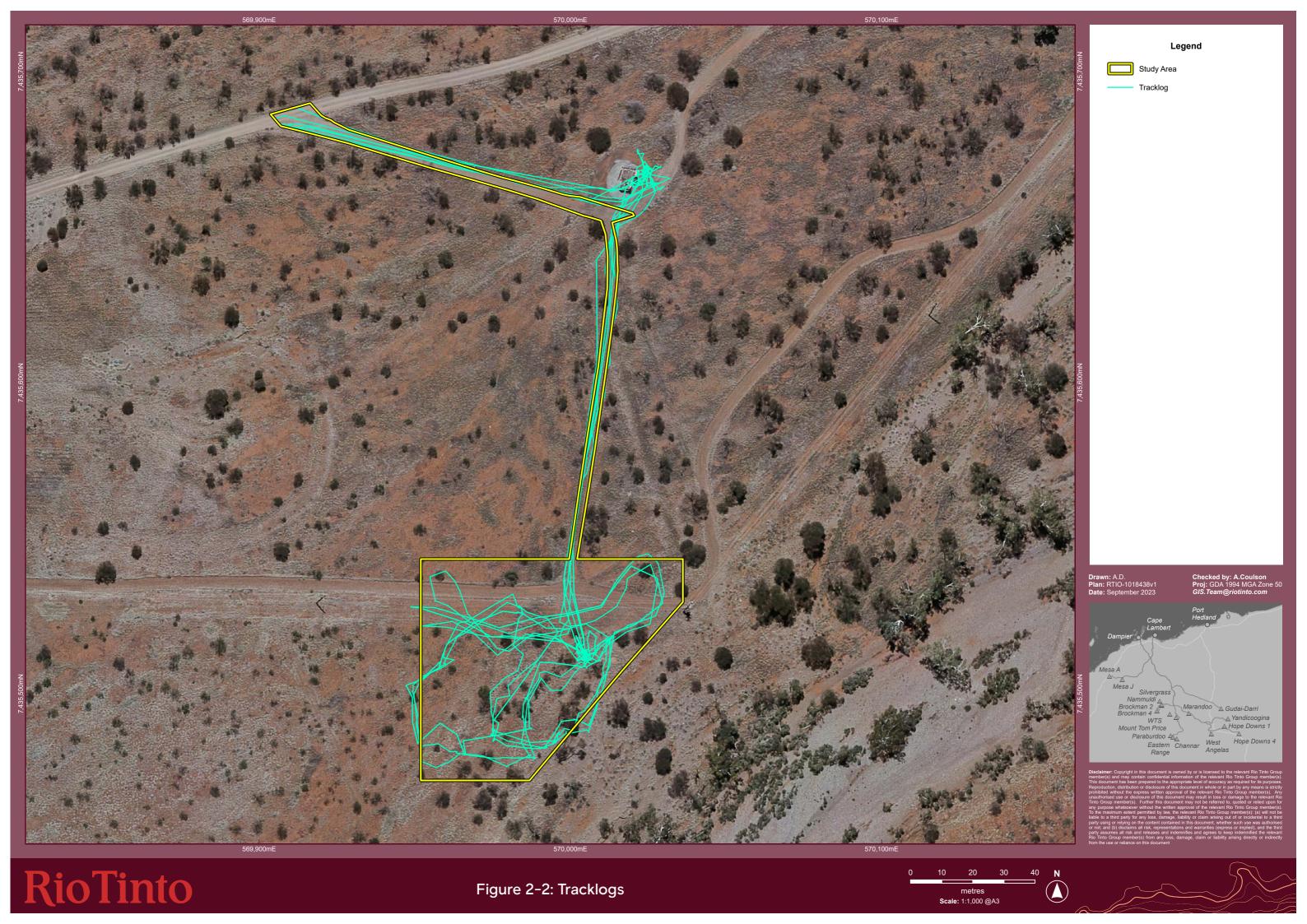
#### 2.3 Field Survey

The study area was surveyed by Rio Tinto Ecologists Bridget Duncan, Juljianna Hantzis and Laura Parker on the 17<sup>th</sup> of July 2023.

The study area was assessed in accordance with the *Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA 2016a) and *Environmental Factor Guideline – Flora and Vegetation* (EPA 2016b). Fauna habitats were confirmed with reference to *Technical Guidance – Terrestrial vertebrate fauna surveys for environmental impact assessment* (EPA 2020) and *Environmental Factor Guideline – Terrestrial Fauna* (EPA 2016c).

Following the literature review and review of the desktop search output the study area was accessed by light vehicle and on foot for a targeted flora and vegetation assessment. An amendment was submitted to DWER to add on Study Areas 1 and 2 to the CPS 6110/6 application area, and now Study Area 3 is proposed to be added An NVCP level survey (targeted and reconnaissance flora and vegetation, and targeted fauna habitat survey) was completed which included a single releve and targeted fauna habitat assessment to inform and amendment to the permit area. Data was collected on the flora species present, including percentage cover; average height of each vegetation stratum; site slope; topography; soil texture and colour; and landform type and habitat features. Tracklogs for the targeted flora and NVCP level survey are displayed on Figure 2-2.

The entire study area was systematically searched for the presence of priority and threatened flora. Where conservation significant flora or potential conservation significant flora was identified within the survey area, they were recorded using a hand-held GPS (GDA 94 Z50). Where populations of conservation significant flora were encountered; estimates of density or numbers of individuals, habitats and associated flora were recorded.



#### 2.3.1 Vegetation descriptions, condition assessment and mapping

Vegetation descriptions for the study area was based on Specht (1970) with modification by Aplin (1979). Assessment of the overall condition of each vegetation association was made based on Trudgen (1988) (Appendix 4).

Vegetation types were mapped in the field and confirmed following data processing post-survey. The vegetation boundaries were digitised on-screen using ArcGIS Pro 3.0.0. The resulting polygons were attributed with the relevant information including the vegetation association, description of key components in each stratum and condition.

#### 2.3.2 Flora identification

An interim species list was compiled in the field covering common species identified with confidence by the field personnel. Voucher samples of unknown and Priority flora were collected, pressed and dried in the field and assigned a unique reference number for each sample.

Flora samples collected in the field were taken to the Western Australian Herbarium (WAH) to be formally identified by Rio Tinto sponsored taxonomist Steve Dillon using relevant taxonomic publications and comparisons to collections at the WAH.

#### 2.3.3 Fauna habitat assessment

Prior to survey, a desktop assessment was completed to identify areas of habitat on which fauna listed in the BC Act in operation at the time have specific dependence. This included a review of the landscape characteristics, literature review, database searches and likelihood of occurrence assessments.

Habitat assessments are used to identify fauna habitat types and quantify their extents within the study area. Habitat assessments incorporate information obtained through the desktop assessment (i.e. vegetation and geological information) as well as information obtained through the field survey (i.e. physical characteristics). Unique habitats can be identified based on their combinations of landforms, soil and vegetation which determine their ability to support specific fauna assemblages or significant fauna.

Significant habitats include rare or isolated habitats and habitat features, such as rock piles, caves, gullies, significant trees, drainage lines or waterholes, damplands and springs as well as those that are likely to provide special resources to fauna. Other important habitats include ecological linkages and migration pathways, refugia, islands, areas that support large or seasonal aggregations of fauna and areas that are important to significant fauna, e.g. for breeding, roosting or foraging.

Broad fauna habitats were identified and mapped based on information obtained through the desktop assessment and confirmed during the field survey. Following the desktop assessment and survey, habitats were assessed for their potential to be of specific dependence to conservation significant species, taking into account species habitat preferences and availability of habitat resources within the study area. Supporting evidence such as sightings, the presence of microhabitats including caves, water holes, tree hollows and burrows were recorded throughout the study area.

Fauna habitats were assessed and mapped as per *Technical Guidance: Terrestrial vertebrate fauna surveys for environmental impact assessment* (EPA 2020).

# 3. Desktop assessment results

# 3.1 Climate

The closest meteorological station providing climate data is Paraburdoo Aero (station number: 007185), located approximately 8 km east of the study area (BOM, 2023). The Paraburdoo climate is generally semi-arid with warm to hot temperatures year-round. Annual rainfall is low with most rain falling in the late summer due to the influence of tropical cyclones and monsoons. A second peak in rainfall can occur in early winter due to cold fronts developed in the south. Rainfall varies in frequency and volume from year to year. The summer wet months extend January to March when temperatures can exceed 48°C. Winter temperature maximums stay in the mid to high 20°C and rarely drop below 10°C.

Rainfall for the three month period preceding the survey was 11.4 mm, which is 53.5 mm below the long-term average for this period (64.9 mm) (BOM 2023). Annual average climate statistics for Paraburdoo Aero are displayed in Figure 3-1.

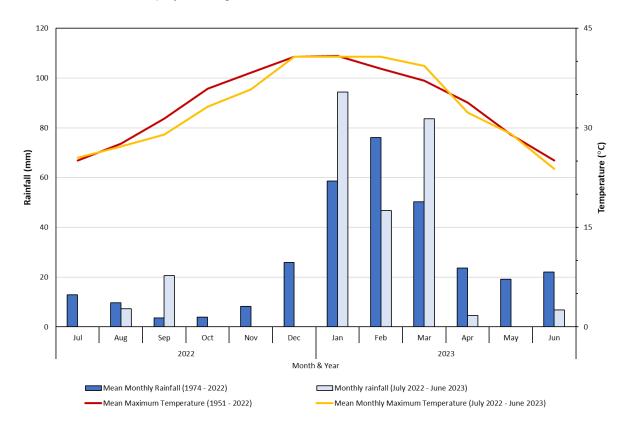


Figure 3-1: Annual average climate statistics for Paraburdoo Aero (Station No. 007185) (BOM, 2023).

# 3.2 Geology and soils

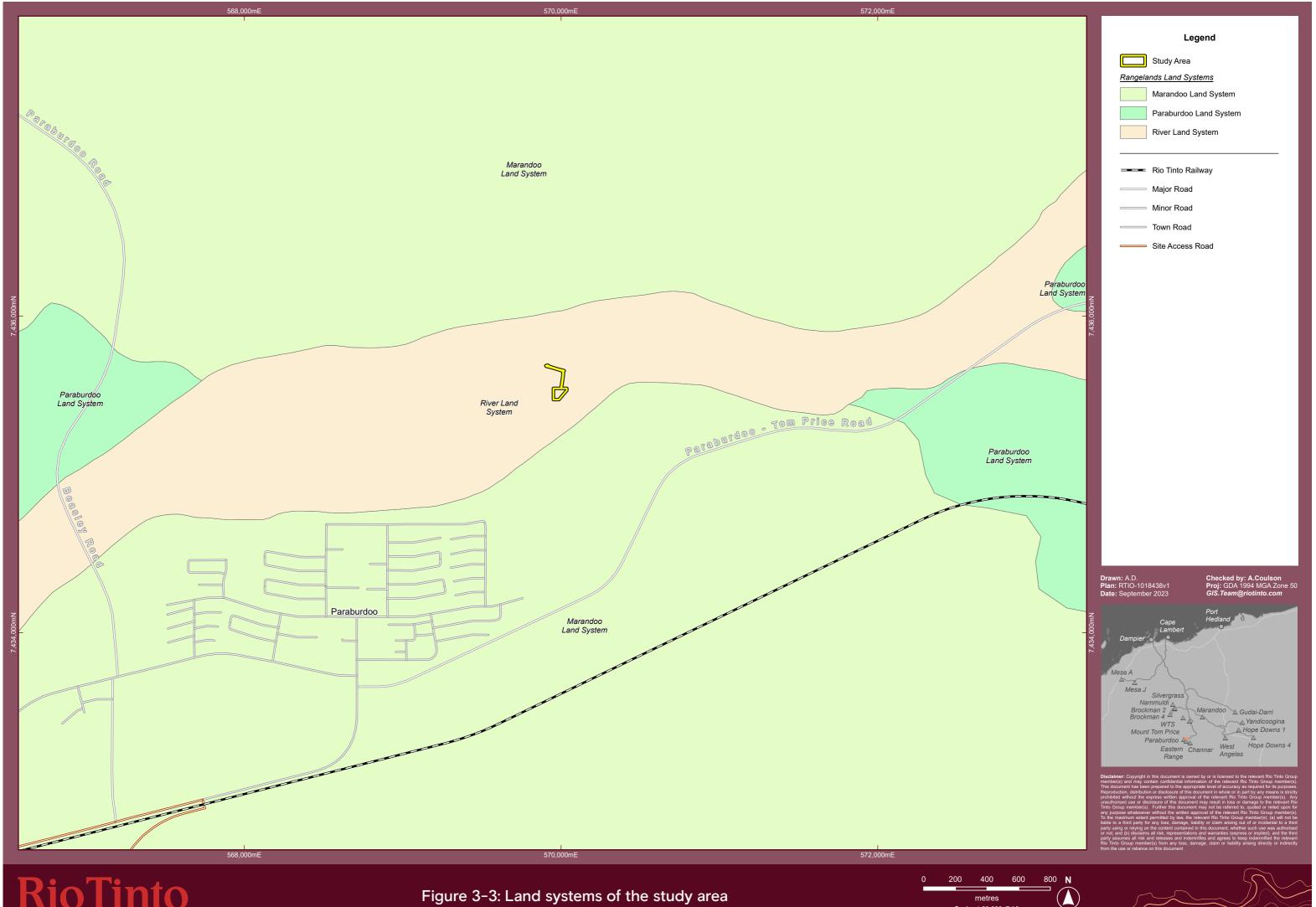
The study area is comprised of one major geological units based on 1:100,000 scale map sheet series (Figure 3-2, Stewart, *et al.* 2008). The geological units are:

• Qa: Alluvium – unconsolidated silt, sand and gravel

Land system (rangeland) mapping is based on regional patterns in topography, soils and vegetation (Christian & Stewart 1953). The most recent land system mapping of the Pilbara bioregion, in which the study area lies, was completed by Van Vreeswyk, *et al.* 2004. The mapping classifies the Pilbara region into 102 land systems. An assessment of land systems provides an indication of the occurrence and distribution of flora and vegetation types as well as fauna habitats present in the study areas.

The study area is comprised of a single land system: River Land (Figure 3-3). The River Land System is described as narrow, seasonally active flood plains and major river channels supporting moderately close, tall shrublands or woodlands of Acacias and fringing communities of Eucalyptus sometimes with tussock grasses or spinifex.





# 3.3 Surface hydrology and groundwater

The study area lies within the Pilbara Groundwater Area and the Roebourne/Ashburton Groundwater Subarea (DWER, 2021).

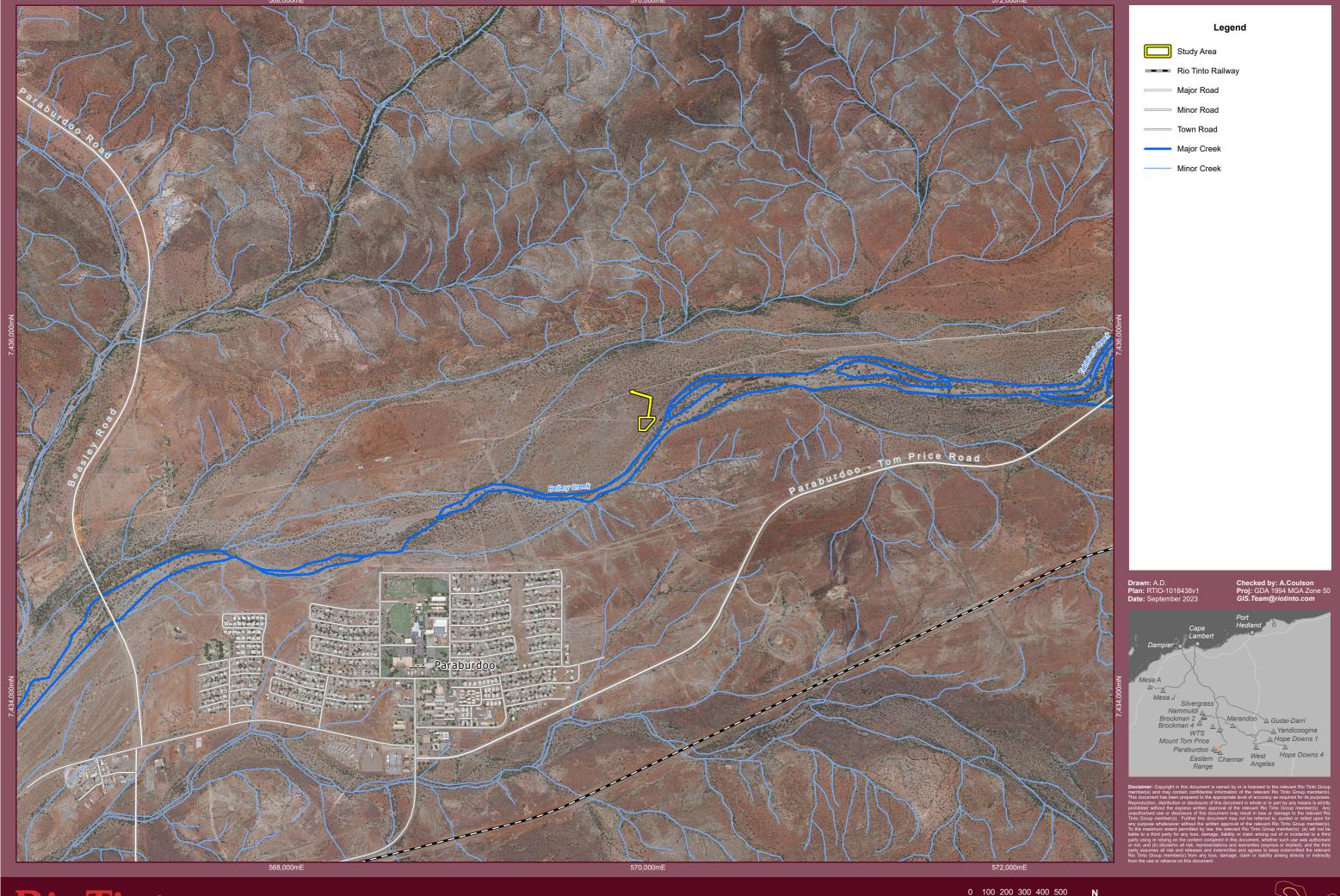
Topography is generally flat and surface water is expected to drain into Bellary Creek, which is located approximately 60m south-east. Surface hydrology and groundwater within the study area are presented in Figure 3-4.

# 3.4 Regional biogeography

The Interim Biogeographic Regionalisation of Australia (IBRA7) recognises 89 bioregions (DCCEEW, 2023a). The study area is located in the Pilbara (PIL) bioregion as defined by IBRA. The Pilbara bioregion has been further subdivided into four subregions: Chichester (PIL1); Fortescue Plains (PIL2); Hamersley (PIL3); and Roebourne (PIL4).

The study area falls within the Hamersley (PIL3) sub-region and is described by Kendrick & Stanley 2001 as:

• 'Southern section of the Pilbara Craton. Mountainous area of Proterozoic sedimentary ranges and plateaux, dissected by gorges (basalt, shale and dolerite). Mulga low woodland over bunch grasses on fine textured soils in valley floors, and *Eucalyptus leucophloia* over *Triodia brizoides* on skeletal soils of the ranges. The climate is Semi-desert tropical, average 300mm rainfall, usually in summer cyclonic or thunderstorm events. Winter rain is not uncommon. Drainage into either the Fortescue (to the north), the Ashburton to the south, or the Robe to the west.'



# 3.5 Beard's regional vegetation mapping

Vegetation type and extent has been mapped at a regional scale by Beard (1975) who categorised vegetation into broad vegetation associations. Based on this mapping at a scale of 1:1,000,000, the Department of Primary Industries and Regional Development (DPIRD) has compiled a list of vegetation extent and types across WA (Shepherd, *et al.* 2002).

The study area falls within one vegetation unit:

• Hammersley (181): Shrublands: Mulga and snakewood scrub.

Given the broad nature of Beard's mapping; these vegetation associations are only broadly applicable to the vegetation types occurring in the study area.

# 3.6 Pre-European vegetation extent

The pre-European and current extent of native vegetation associations in Western Australia has been interpreted by Shepherd, *et al.* (2002) using data from Beard's (1975) regional vegetation mapping and other vegetation mapping, as well as satellite imagery and orthophoto interpretation.

Shepherd, *et al.* (2002) identified the Pilbara bioregion as having largely intact native vegetation owing to the lack of intensive agricultural land use practices. Although the native vegetation remains widespread and largely intact, the floristic composition and structural characteristics have almost certainly changed since European settlement by grazing and altered fire regimes (Shepherd, *et al.* 2002).

Table 3-1 and Figure 3-5 present the pre-European and current extent of Beard's mapping units within the study area.

Table 3-1: Beard's mapping current and pre-European extent within the Pilbara bioregion and across the study area

Beard's mapping unit	Pre-European extent (ha)^	Current extent (ha)^	Percentage remaining (%)	
(Shepherd vegetation association)				
Hammersley (181)	63,096.38	61,210.44	97.01	

<sup>^</sup> Department of Biodiveristy, Conservation and Attractions (2019)



Scale: 1:18,000 @A3

# 3.7 Conservation areas and Environmentally Sensitive Areas

Environmentally Sensitive Areas (ESAs) are defined in the *Environmental Protection (Environmentally Sensitive Areas) Notice 2005* under section 51B of the WA State Environmental Protection Act 1986. ESAs include areas declared as: World Heritage; included on the Register of the National Estate; defined wetlands; vegetation containing rare (Threatened) flora; Threatened Ecological Communities (TEC); and Bush Forever sites.

The study area does not lie within any conservation areas or ESAs, nor are any within 20 km of the study area.

# 3.8 Priority Ecological Communities

Priority Ecological Communities (PECs) are possible TECs that do not meet survey criteria or are not adequately defined for the TEC list by the DBCA - Parks and Wildlife Service (Parks and Wildlife) (DBCA, 2018a, DBCA, 2022), they are ranked as Priorities 1, 2 and 3 (1 being the highest).

The study area does not lie within any PECs or their buffers, nor are any located within 20 km of the study area.

#### 3.9 Flora

#### 3.9.1 Flora diversity

The DBCA NatureMap database search results cover all species detected previously within 20 km of the study area. The DBCA NatureMap search returned a total of 430 species from 168 genera and 56 families (Table 3-2). The combined DBCA NatureMap and Rio Tinto databases returned a total of 19 conservation significant flora species (Table 3-4). The PMST database search did not return any listed flora species.

Table 3-2 Flora diversity of the study area based on desktop assessment (DBCA. 2007-)

#### Flora group

NatureMap database
56
168
430
19
5

# 3.9.2 Conservation significant flora likelihood of occurrence

Nineteen (19) conservation significant flora species were returned by the database searches (Table 3-3). Of these, one is listed as Threatened, two as Priority 1 (P1), two as Priority 2 (P2), 11 as Priority 3 (P3) and three as Priority 4 (P4). Six of these species are considered to potentially occur within the study area (Figure 3-3).

Table 3-3:	Flora likel	ihood o	f occurre	ence assessment				
Taxon	WA listing	NM	RT	Distance to nearest record (km)	Flowering period	Habitat	Likelihood of occurrence	
Aluta quadrata	Т	Х	Х	13	May – Jun	Edge of creek beds, in gullies, base of cliffs, in cracks on cliff faces, rocky crevices, near crest of ridge, as an emergent from spinifex.	Unlikely  This taxon has been previously recorded within 15 km of the study area, however its preferred habitat of rocky crevices, bases of cliffs and gullies are unlikely to occur within the study area.	
Eremophila coacta	P3	Х	Х	17	Jun – Jul or Sep	Laterite, shale soils. Ironstone or laterite hills, moderate to steep slopes, along ephemeral creeklines.	Unlikely  The study area does not include suitable habitat for this taxon.  This taxon has not been recorded within 15 km of the study area.	
Eremophila magnific subsp. Magnifica	a P4	Х		11	Jul – Sep	Skeletal soils over ironstone. Rocky screes and slopes	This taxon has been previously recorded within 15 km of the study area, however its preferred habitat of scree slopes and summits do not occur within the study area.	
Eremophila naayken	sii P3	Х	Х	7.2	Aug – Sep	Hillslopes, scree slopes, gullies, rock faces of large hills and cliffs, ironstone outcrops. Brown-red soil, silty loam.	·	
Goodenia sp. East Pilbara (A.A. Mitchel PRP 727)	P3	Х	Х	3.5	Aug – Sep	Red-brown clay soil, calcrete pebbles. Low undulating plain, swampy plains, major river systems.		
Grevillea saxicola	P3	Х	Х	5.9	Feb – Mar	Hillslopes, incised gully systems, steep cliffs, upper scree, breakaway slopes, crests. Orange-brown to red-brown loam soils. Banded iron formation.	Unlikely  This taxon has been previously recorded within 10 km of the study area, however its preferred habitat of hillslopes, incised gully systems and steep slopes are unlikely to occur within the study area.	

Taxon	WA listing	NM	RT	Distance to nearest record	Flowering period	Habitat	Likelihood of occurrence
Hibiscus campanulatus	P1	Х	X	(km) 5.7	Jul – Aug	Rocky gully, steep slopes, base of breakaways, minor drainage lines through ironstone hills. Brown sandy loam soils. Often in association with the Canga detrital formations.	study area, nowever its preferred including rocky gully, steep slopes, base of breakaways and minor drainage lines are
Hibiscus sp. Gurinbiddy Range (M.E. Trudgen MET 15708)	P2	X	Х	17	May – Jul	Rocky slopes, gullies, breakaways, scree slopes, creeks. Gravelly, red brown loam.	Unlikely  Unlikely  The study area does not include suitable habitat for this taxon.  This taxon has not been recorded within 15 km of the study area.
Isotropis forrestii	P1		Х	7.1	Apr – Sep or Dec	Stony clay loam, sandy alluvium. Along drainage lines.	Potential  This taxon was recorded within 10 km of the study area and its preferred habitat may occur within the study area.
Olearia mucronata	P3	X		>100	Aug – Jan	Schistose hills, along drainage channels, amongst ironstone boulders, margins of dry creek lines.	Unlikely
Pilbara trudgenii	P3	Х	Х	17	Sep – Oct	Skeletal, red stony soil over ironstone. Hill summits, steep slopes, screes, cliff faces.	Unlikely The study area does not include suitable habitat for this taxon. This taxon has not been recorded within 15 km of the study area.
Ptilotus mollis	P4		Х	18	May or Sep	Stony hills, screes, steep rocky sites, often in full sun on massive ironstone formations.	Unlikely  The study area does not include suitable habitat for this taxon.  This taxon has not been recorded within 15 km of the study area.
Ptilotus trichocephalus	P4	Х	Х	11	Sep	Clay flats, sandy colluvial soils, gibber plains.	Potential  This taxon has been previously recorded within 15 km of the study area and its preferred habitat may occur within the study area.

Taxon	WA listing	NM	RT	Distance to nearest record	Flowering period	Habitat	Likelihood of occurrence
Side on Parlos Bango				(km)		Skalatal rad sails poskata. Steep slanes	
Sida sp. Barlee Range (S. van Leeuwen 1642)	P3	Χ	Χ	5.5	Jul – Aug	Skeletal red soils pockets. Steep slopes, rocky areas, scree slopes, rock piles in full	Potential
						sun to afternoon shade or in small ridges	This taxon was recorded within 10 km of the study area and its
2//						and gullies.	preferred habitat may occur within the study area.
Sida sp. Hamersley Range (K. Newbey	P3	Χ	Χ	14	Aug – Oct	Gullies, breakaways, in ironstone crevices, rocky outcrops, sometimes in flat areas	Unlikely
10692)						between hills in shrubby grassland. Brown	This taxon has been previously recorded within 15 km of the
						loamy sand.	study area; however its preferred habitats of ironstone crevices,
							rocky outcrops and breakaways are unlikely to occur within the
							study area.
Solanum kentrocaule	P3		Χ	12	May or Jul – Oct	Rocky hills, steep slopes of ironstone hills, cliff faces, gullies, seasonal creeks,	Potential
						mountaintops. Stony soils, red-brown	This taxon has been previously recorded within 15 km of the
						skeletal loam. Ironstone or basalt.	study area and its preferred habitat may occur within the study
							area.
Solanum octona	P2		Χ	9.4		Gorge top, steep hillslopes, riverine areas, drainage channel in hardpan plains,	Potential
				9.4		seasonally inundated areas. Red sandy soil, skeletal soils, gritty sand, red-brown clay loam.	This taxon has been previously recorded within 10 km of the
							study area and its preferred habitat may occur within the study
						ciay loam.	area.
Swainsona thompsoniana	P3	Х		>100	Mar or Aug – Sep	Floodplains, bank slopes, cracking clay plains, gibber plains, crabhole plains and	Unlikely
triorripsoriiaria						gilgai, usually at some elevation. Red-	The study area does not include suitable habitat for this taxon.
						brown clay loam. Ironstone pebbles and rocks.	This taxon has not been recorded within 20 km of the study
						IOCKS.	area.
Themeda sp.	- P3	Х		79	Aug	Red clay, dark self-mulching clays. Clay	Unlikely
Hamersley Station (M.E Trudgen 11431)	Ξ.				9	pan, grass plain, drainage lines, crabhole flats.	The study area does not include suitable habitat for this taxon.
,							This taxon has not been recorded within 20 km of the study
							area.

#### 3.10 **Fauna**

#### 3.10.1 Fauna diversity

A NatureMap search was performed for terrestrial vertebrate fauna species within a 20 km buffer of the study area. This includes conservation significant fauna, feral (introduced) fauna and fauna not considered rare, threatened or conservation dependent. A total of 254 terrestrial vertebrate fauna species have been previously recorded within the buffered study area. This comprises 147 bird species, 65 reptile species, 36 mammal species, three amphibian species and three fish species. Eleven (11) of these species are listed under the BC Act (Table 3-4).

Twelve (12) additional BC Act listed fauna were detected from the Rio Tinto database or PMST searches (Table 3-5).

Table 3-4 presents a summary of terrestrial vertebrate fauna species returned by the NatureMap database search.

Table 3-4: Summary of terrestrial vertebrate fauna species returned by NatureMap search

Fauna group	No. of species
Amphibians	3
Fish	3
Reptiles	65
Birds	147
Mammals	36
Total	254
BC Act listed	11

# 3.10.2 Conservation significant (BC Act) fauna likelihood of specific dependence

Twenty-three conservation significant (BC Act) fauna species were returned by the database searches (**Table 3-5**). Of these, two were listed as Critically Endangered, two as Endangered, six as Vulnerable, 10 as Migratory, two as Priority 4 and one as Other Specially Protected Species. The study area is not considered to contain habitat of specific dependence for any of these species (**Table 3-4**).

Table 3-5:	Likelih	1000	of	study	area co	ontaining habitat for which fa	auna listed in the BC Act have specific dependence	
Species	Common name	BC Ac		/I RT	PMST	Distance to nearest record (km)	Habitat and discussion	Likelihood of study area containing habitat of specific dependence
Birds								
Actitis hypoleucos	Common Sandpiper		X	Х	MI/LM	10.2	This species has been recorded in estuaries and deltas of streams, as well as on banks farther upstream; around lakes, pools, billabongs, reservoirs, dams and claypans, and occasionally piers and jetties. The species generally forages in shallow water and on bare soft mud at the edges of wetlands. They sometimes venture into grassy areas adjoining wetlands (Higgins & Davies 1996).	Unlikely  Although there is a record of the  Common Sandpiper within 20km of the study area, the study area does not contain habitat on which this species is dependant.
Aphelocephala leucopsis	Southern Whiteface				VU		Southern Whitefaces live in a wide range of open woodlands and shrublands where there is an understorey of grasses or shrubs, or both. These areas are usually in habitats dominated by acacias or eucalypts on ranges, foothills and lowlands, and plains (Higgins & Peter 2002). Southern Whitefaces occur across most of mainland Australia south of the tropics, from the north-eastern edge of the Western Australian wheatbelt, east to the Great Dividing Range (Schodde & Mason 1999).	Unlikely  The study area does not contain habitat on which this species is dependant.
Apus pacificus	Fork- tailed Swift	MI			MI/LM		The Fork-tailed Swift is almost exclusively aerial, flying from less than 1 m to at least 300 m above ground and probably much higher. In Australia, they mostly occur over a wide range of habitats from inland plains, dry or open habitats, riparian woodland, tea-tree swamps, low scrub, heathland, saltmarsh, over cliffs, beaches, islands and well out to sea, above foothills or in coastal areas. They also occur over settled areas, including towns, urban areas and cities (DCCEEW, 2023c).	Unlikely  The study area does not contain habitate on which this species is dependant.
Bubulcus ibis	Cattle Egret				LM		The Cattle Egret inhabits tropical and temperate grasslands and is occasionally found in arid and semi-arid regions. They commonly associate with the habitats of farm animals. The Cattle Egret has been found in disturbed areas including rubbish tips.	Unlikely  The study area does not contain habitat on which this species is dependant.
Calidris acuminata	Sharp- tailed Sandpiper		Х		MI/LM		In Australasia, the Sharp-tailed Sandpiper prefers muddy edges of shallow fresh or brackish wetlands, with inundated or emergent sedges, grass, saltmarsh or other low vegetation. This includes lagoons, swamps, lakes and pools near the coast, and dams, waterholes, soaks, bore drains and bore swamps, saltpans and hypersaline salt lakes inland. They also occur in saltworks and sewage farms. They use flooded paddocks, sedgelands and other ephemeral wetlands, but leave when they dry (DCCEEW, 2023c).	Unlikely The study area does not contain habitat on which this species is dependant.

Species	Common name	BC NM R Act	T PMST	Distance to nearest record (km)	Habitat and discussion	Likelihood of study area containing habitat of specific dependence
Calidris ferruginea	Curlew Sandpiper	CR	CE/LM		The Curlew Sandpiper prefers habitats such as tidal mudflats, saltmarsh, salt fields, fresh, brackish or saline wetlands and sewerage ponds. It is also found at lagoons and mangroves, as well as beaches, rocky shores and around lakes, dams and floodwaters. The Curlew Sandpiper does not breed in Australia (Pizzey & Knight 2012).	on which this species is dependant.
Calidris melanotos	Pectoral Sandpiper	МІ	MI/LM		In Australasia, the Pectoral Sandpiper prefers shallow fresh to saline wetlands. The species can be found at coastal lagoons, estuaries, bays, swamps, lakes, inundated grasslands, saltmarshes, river pools, creeks, floodplains and artificial wetlands. Although this species is usually found in coastal or near coastal habitat, it can occasionally be found further inland. It prefers wetlands that have open fringing mudflats and low, emergent or fringing vegetation, such as grass or samphire (DCCEEW, 2023c).	The study area does not contain habitat on which this species is dependant.
Calidris subminuta	Long-toed Stint	мі х			In Australia, the preferred habitat of the Long-toed Stint includes tussocky, weedy margins of shallow coastal and inland wetlands, sewerage ponds and tidal mudflats (Pizzey & Knight 2012). They prefer shallow freshwater or brackish wetlands including lakes, swamps, river floodplains, streams, lagoons and sewage ponds. The species is also fond of areas of muddy shoreline, growths of short grass, weeds, sedges, low or floating aquatic vegetation, reeds, rushes and occasionally stunted samphire (DCCEEW, 2023c)	Unlikely The study area does not contain habitat on which this species is dependant.
Chalcites osculans	Black- eared Cuckoo		LM		Found in dry open forests, mallee, mulga and scrublands. The Black-eared Cuckoo prefers low trees and shrubs over tall canopies. Occasionally, the species has been recorded in urban areas and farmlands.	Unlikely The study area does not contain habitat on which this species is dependant.
Charadrius veredus	Oriental Plover	MI	MI/LM		Immediately after the Oriental Plover arrives in their non-breeding grounds in northern Australia, they spend a few weeks in coastal habitats such as estuarine mudflats and sandbanks, on sandy or rocky ocean beaches or nearby reefs, or in near-coastal grasslands, before dispersing further inland. Thereafter they usually inhabit flat, open, semi-arid or arid grasslands, where the grass is short and sparse, and interspersed with hard, bare ground, such as claypans, dry paddocks, playing fields, lawns and cattle camps, or open areas that have been recently burnt (DCCEEW, 2023c).	Unlikely The study area does not contain habitat on which this species is dependant.
Erythrotriorchis radiatus	Red Goshawk	VU	EN		The Red Goshawk occurs in coastal and sub-coastal areas in wooded and forested lands of tropical and warm-temperate Australia (Marchant & Higgins 1993). Riverine forests are also used frequently. The Red Goshawk nests in large trees, frequently the tallest and most massive in a tall stand, and nest trees are invariably within one km of permanent water (DCCEEW, 2023c).	The study area does not contain

Species	Common name	BC NM Act	RT	PMST	Distance to nearest record (km)	Habitat and discussion	Likelihood of study area containing habitat of specific dependence
Falco hypoleucos	Grey Falcon	VU X	X	VU	7.2	Grey Falcon is a wide roaming species and prefers habitats such as lightly treed inland plains, gibber deserts, sand ridges, pastoral lands, timbered watercourses. They are seldom in the driest deserts (Pizzey & Knight 2012).	Unlikely  Although this taxon was recorded within 10 km of the study area, it is unlikely it will have a specific dependence on this habitat to support its survival. This species may overfly study area.
Falco peregrinus	Peregrine Falcon	OS	X		7.5	The Peregrine Falcon inhabits cliffs, gorges, timbered waterways, riverine environments, wetlands, plains and open woodlands. It also inhabits pylons, spires and buildings. Nesting habitat includes cliff edges or crevices, large tree hollows, other raptor or corvid nests and ledges of city buildings (Pizzey & Knight 2012).	Unlikely Although this taxon was recorded within 10 km of the study area, it is unlikely it will have a specific dependence on this habitat to support its survival. This species may overfly study area.
Hirundo rustica	Barn Swallow	MI		MI/LM		In Australia, the Barn Swallow is recorded in open country in coastal lowlands, often near water, towns and cities. Barn Swallows are often sighted perched on overhead wires and also in or over freshwater wetlands, paperbark Melaleuca woodland, mesophyll shrub thickets and tussock grassland (Schodde & Mason 1999).	Unlikely  The study area does not contain habitat on which this species is dependant.
Meropus ornatus	Rainbow Bee-eater			LM		The Rainbow Bee-eater is distributed across the majority of mainland Australia but is thinly distributed in the arid regions of Western Australia. It occurs in open forest and woodlands, shrublands and in cleared/semi-cleared habitats. Often found in close proximity to permanent water. In arid areas, the species prefers riparian and floodplain assemblages.	Unlikely  The study area does not contain habitat on which this species is dependant.
Motacilla cinerea	Grey Wagtail	MI		MI/LM		The Grey Wagtail can be found in Australia near running water and in disused quarries. It is also found in sandy, rocky streams in escarpments and rainforests, sewage ponds, ploughed fields and airfields (Pizzey & Knight 2012).	Unlikely  The study area does not contain habitat on which this species is dependant.
Motacilla flava	Yellow Wagtail	MI		MI/LM		The Yellow Wagtail is mostly found in open country near water. Little information is available on this species.	Unlikely  The study area does not contain habitat on which this species is dependant.

Species	Common name	BC NM Act	RT PMST	Distance to nearest record (km)	Habitat and discussion	Likelihood of study area containing habitat of specific dependence
Pezoporus occidentalis	Night Parrot	CR	EN		The Night Parrot is a highly cryptic bird which was presumed extinct until its rediscovery in 2013. As such, habitat requirements are still being researched. At the time of this report Night Parrots are thought to roost and nest in clumps of dense vegetation, primarily old and large spinifex (Triodia) clumps, but sometimes other vegetation types are used. Little is known about foraging sites, but favoured sites are considered likely to vary across the range of the species. Triodia is also likely to provide a good food resource for night parrots, in times of mass flowering and seeding, but they also rely heavily on a range of other food species. Sclerolaena has been shown to be a source of food and moisture (Department of Biodiversity, Conservation and Attractions, 2017).	Unlikely  The study area does not contain habitat on which this species is dependant.
Polytelis alexandrae	Princess Parrot	VU	VU		The Princess Parrot inhabits sand dunes and sand flats in the arid zone of western and central Australia. It occurs in open savanna woodlands and shrublands. It also frequents Eucalyptus or Allocasuarina trees in riverine or littoral areas (DCCEEW, 2023).	Unlikely The study area does not contain habitat on which this species is dependant.
Rostratula australis	Australian Painted Snipe	EN	EN/LM		The Australian Painted Snipe is usually found in shallow inland wetlands, either freshwater or brackish, that are either permanently or temporarily filled. Though some individuals are apparently resident in some areas, other individuals appear to be nomadic, temporarily occupying areas where suitable habitat exists (DCCEEW, 2023c).	
Tringa glareola	Wood Sandpiper	мі х			The Wood Sandpiper prefers well-vegetated, shallow, freshwater wetlands, such as swamps, billabongs, lakes, pools and waterholes (Menkhorst et al., 2017). They also frequent inundated grasslands, short herbage or wooded floodplains, where floodwaters are temporary or receding, and irrigated crops (Pizzey & Knight 2012).	Unlikely The study area does not contain habitat on which this species is dependant.
Mammals						
Dasyurus hallucatus	Northern Quoll	EN X	X EN	9.0	Northern Quoll occupy a diverse range of habitats including rocky areas, eucalypt forest, woodlands, rainforests, sandy lowlands and beaches, shrubland, grasslands and desert (Threatened Species Scientific Committee, 2005). Habitat generally encompasses some form of rocky area for denning purposes with surrounding vegetated habitats used for foraging and dispersal. Dens are made in rock crevices, tree holes or occasionally termite mounds. In the Pilbara region, the species appears to prefer the Rocklea, Macroy and Robe land systems. The Northern Quoll has also been recorded in other land systems which comprise sandstone and dolomite hills and ridges, shrublands, sandy plains, clay plans and tussock grasslands and coastal fringes including dunes islands and beaches (Biota, 2008).	Although this taxon was recorded within 10 km of the study area, the study area does not contain suitable habitat to specifically support this species. The Northern Quoll is therefore unlikely to specifically depend on this habitat for survival and therefore be present within the survey area.

Species	Common name	BC Act		I RI	PMST	Distance to nearest record (km)	Habitat and discussion	Likelihood of study area containing habitat of specific dependence
Macroderma	Ghost Bat	VU	Х	Х	VU	6.2	The Ghost Bat is patchily distributed across the northern half of Australia. This species requires undisturbed roost sites which are often complex and contain	Unlikely
gigas							multiple entrances; it has been known to utilise old abandoned mine shafts (Menkhorst & Knight 2017).	Although this taxon was recorded within 10 km of the study area and species may overfly the study area, the study area does not contain habitat of specific dependence to support this species.
Pseudomys chapmani	Western Pebble- mound Mouse	P4	Х				The Western Pebble-mound Mouse is found on stony hillsides with hummock grassland (Menkhorst & Knight, 2021). This species favors scree and stony plains habitat where it constructs conspicuous, extensive mounds of small stones. The pebble-mounds are found on gently sloping hills where the ground is stony with continuous small pebbles.	Unlikely  The study area does not contain habitat on which this species is dependant.
Rhinonicteris aurantia	Pilbara Leaf- nosed Bat		X	X	VU	3.5	The Pilbara leaf-nosed bat (PLNB) inhabits abandoned mine shafts, granite rock pile terrain of the east Pilbara and caves formed in gorges that dissect sedimentary geology in the west. This species is more influenced by the availability of suitable roost caves than by habitat type and high humidity is particularly important to this species (Van Dyck & Strahan 2008).	Unlikely Although this taxon was recorded within 5 km of the study area and species may overfly the study area, the study area does not contain habitat of specific dependence to support this species.
Sminthopsis Iongicaudata	Long- tailed Dunnart	P4	Х				The Long-tailed Dunnart inhabits exposed rock and stony soils with hummock grasses and shrubs. They can be found on flat-topped hills, lateritic plateaus, sandstone ranges and breakaways as well as sparse mulga over spinifex (Van Dyck, Gynther and Baker, 2013).	Unlikely  The study area does not contain habitat on which this species is dependant.
Reptiles								

Species	Common name	BC NN Act	I RT	PMST	Distance to nearest record (km)	Habitat and discussion	Likelihood of study area containing habitat of specific dependence
Liasis olivaceus subsp. barroni	Pilbara Olive Python	VU X	Х	VU	10.1	Pilbara Olive Python habitat includes escarpments, gorges and water holes in the ranges of the Pilbara region (Wilson & Swan 2008). Individuals are usually recorded in close proximity to water and rock outcrops that attract suitably sized prey species (Pearson, 2003).	Unlikely Although this taxon was recorded within 15 km of the study area, the study area does not contain habitat of specific dependence to support this species.

NM – NatureMap; RT –Rio Tinto Priority Fauna Database; PMST – EPBC Act Protected Matters Search Tool. \* Please note that due to NatureMap being taken offline indefinitely as of 17 December 2021, location of closest record has been derived from the Rio Tinto internal database.

#### 4. Field results

#### 4.1 Flora

#### 4.1.1 Flora diversity

Flora diversity was recorded for the study area to inform the request to extend the area subject to CPS 6110/6. A total of 18 flora species from 10 families were identified during the survey. The most specious family was Poaceae (5), Fabaceae (3) and Chenopodiaceae (3). A full list of species is presented in Appendix 6.

#### 4.1.2 Conservation significant flora

The study area was systematically searched for the presence of threatened and priority flora. No conservation significant flora was detected during the survey within the study area. As such it is considered unlikely that any threatened or priority flora species are present within the study area.

#### 4.1.3 Introduced flora

Three (3) species of introduced flora were detected during the survey of the Study Area. These comprised:

- Aerva javanica
- Cenchrus ciliaris
- Cenchrus setiger

None of these species are listed as Weeds of National Significance (WONS).

#### 4.2 Vegetation of the study area

The study area comprised one vegetation type: *Acacia citrinoviridis* tall shrubland over \**Aerva javanica*, *Eremophila fraseri* and *Corchorus crozophorifolius* open shrubland over \**Cenchrus ciliaris* and \**Cenchrus setiger* closed tussock grassland. This vegetation type covers 85.18% of the study area (0.46 ha), the remaining 0.08 ha (14.82%) of the study area had been cleared for tracks and infrastructure.

The vegetation within the study area was assessed as being in Poor condition with disturbances from weeds, tracks, cattle, litter, previous clearing and infrastructure (Table 4-1)(Figure 4-1).

#### 4.3 Vegetation of conservation significance

The vegetation within the study area is considered to be common within the region and did not represent a potential PEC or TEC.

Table 4-1 Vegetation types within the study area

Vegetation code	Description	Extent (ha) within study area	Proportion (%) Photo within study area
AcAjEfCcroCsCcil  (Fauna habitat = Alluvial Plain)	Acacia citrinoviridis tall shrubland over *Aerva javanica, Eremophila fraseri and Corchorus crozophorifolius open shrubland over *Cenchrus ciliaris and *Cenchrus setiger closed tussock grassland.  This vegetation type had disturbances from weeds, tracks, cattle, litter, previous clearing and infrastructure and overall was in Poor condition.		85.18
HD	Highly modified  Areas that are heavily disturbed, degraded, weed infested or cleared.	0.08	14.82
Total		0.54	100



#### 4.4 Fauna habitat

The majority of the study area is Alluvial Plain habitat, which comprises of alluvial, silt, clay or loams associated with floodplains adjacent to drainage lines, accounting for 0.46 ha (85.18%). The other 0.08 ha (14.82%) of the study area is disturbed habitat with no complex vegetation. Portions of the habitats within the study area have been cleared/disturbed and the remaining vegetation is in poor condition. Due to the low vegetation complexity and heavily disturbed nature of the habitats (which lie along roads and powerline corridors), the habitats are considered to have little value to most fauna, including BC Act listed fauna.

The fauna habitat types are described below, accompanied by mapping of the habitat types (Table 4-2, Figure 4-2).

Table 4-2: Fauna habitats within the study area

Habitat	Fauna habitat description	Significant microhabitat	Extent (ha) within study area	Proportion (%) within study area
Alluvial Plain	This habitat is comprised of low lying, vegetation including tussock grasses. The landscape is generally low lying with very slight to no gradient. Some areas may be seasonally inundated with water but do not provide a permanent water source for fauna. Typical substrate of this habitat includes alluvial, silt and/or loamy/clay.	None.	0.46	85.18
	Microhabitats generally include increased vegetation cover compared to other plains habitat, leaf litter, soft substrate for burrowing species, logs, and hollows. However, given the disturbed nature of the study area, very few of these microhabitats exist.			
	Habitat connectivity is considered good.			
	Conservation significant fauna with specific dependence on the habitat within the Study Area:			
	None of the 23 listed species above that may occur within the Study Area are likely to have a specific dependence on this habitat.			
Disturbed	Areas where the natural vegetation and microhabitats have been disturbed (tracks, laydown areas etc.). This habitat also contains previously disturbed areas with some natural vegetation regrowth.	None.	0.08	14.82
	Where natural regrowth has occurred, the habitat appears to be in degraded or completely degraded condition.			
TOTAL	g		0.54	100



### 5. Conclusion

The study area has been subject to a flora, vegetation and fauna desktop assessment, and a targeted flora, vegetation and fauna habitat survey. No conservation significant flora, vegetation or habitats of specific dependence to BC Act fauna were observed during the survey or are considered likely to occur within the study area.

#### 6. Statement addressing the 10 Clearing Principles

Rio Tinto proposes to install a bore to replace two historical bores to supply water for Paraburdoo, Western Australia. The study area (0.54 ha) comprises 0.46 ha of native vegetation and 0.08 ha previously cleared tracks.

Based on specialist assessment of the survey area and discussion below, it is deemed that:

• Principles a-j are not at variance;

#### 6.1 Principle a: Comprises high level of biological diversity

Native vegetation should not be cleared if it comprises a high level of biological diversity.

The Pilbara is one of Australia's 15 National Biodiversity Hotspots (DotEE 2018a) and is a secondary centre of endemism and species richness for *Acacia*, *Triodia*, *Corymbia* and *Sida* in Western Australia (Maslin 2001, Kendrick 2001 and Maslin and van Leeuwen 2008). The Hamersley sub-region of the Pilbara has been identified by the Threatened Species Scientific Committee for the Australian Government Biodiversity Hotspots as it provides habitat for a number of threatened, endemic and firesensitive species and communities.

The study area occurs within the Hamersley sub-region of the Pilbara bioregion. The Hamersley sub-region is described as: 'Mountainous area of Proterozoic sedimentary ranges and plateaux, supporting Mulga (*Acacia aneura*) low woodland over bunch grasses on fine textured soils, and *Eucalyptus leucophloia* woodlands over *Triodia brizoides* hummock grasslands on skeletal sandy soils' (Kendrick 2001).

Special features of the Hamersley sub-region include rare features such as gorges, centres of endemism including calcrete deposits, refugia and the *Themeda* grasslands TEC (Kendrick 2001).

One vegetation unit was described from the study area; *Acacia citrinoviridis* tall shrubland over \**Aerva javanica*, *Eremophila fraseri* and *Corchorus crozophorifolius* open shrubland over \**Cenchrus ciliaris* and \**Cenchrus setiger* closed tussock grassland. This vegetation unit does not represent a TEC under either the EPBC Act or under the State listing maintained by DBCA and does not represent a PEC under the State listing maintained by DBCA (DBCA, 2018a, DBCA, 2022). The vegetation unit identified within the study area is considered to be of low conservation value and widely distributed both locally and throughout the Hamersley sub-region.

A total of 18 flora species from 16 genera representing 10 families were recorded during the current survey. The number of species recorded during the current survey is reflective of the small survey area, low landscape diversity and heavily disturbed nature of the study area.

No conservation significant flora species were detected during the survey, however three weed species were recorded. None of the weed species recorded are listed WONS.

One broad fauna habitat was recorded within the study area; Alluvial Plain. This fauna habitat is not considered to be restricted at a local or regional level.

Based on specialist assessment, the proposal is considered not at variance to this principle.

### 6.2 Principle b: Potential impact to any significant habitat for fauna indigenous to Western Australia

Native vegetation should not be cleared if it comprises the whole, or part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.

One broad fauna habitat was detected during the survey; Alluvial Plain. This habitat is not considered to be of specific dependence to conservation significance fauna. Due to the small size of clearing within this habitat, it is considered unlikely the Proposal will negatively impact on the conservation status of any species, on either a local or regional scale.

Based on specialist assessment, the proposal is considered not at variance to this principle.

#### 6.3 Principle c: Potential impact to any rare flora

Native vegetation should not be cleared if it includes, or is necessary for the continued existence of rare flora.

No Declared Rare / Threatened flora species were recorded, nor were any EPBC Act listed Threatened flora observed. It is considered highly unlikely that any Threatened flora species would have been overlooked, nor is any preferred landforms/habitat present that is likely to support Threatened flora.

Based on specialist assessment, the proposal is considered not at variance to this principle.

#### 6.4 Principle d: Presence of any threatened ecological communities

Native vegetation should not be cleared if it comprises the whole or part of, or is necessary for the maintenance of a threatened ecological community (TEC).

There are no State or Commonwealth listed TECs within or adjacent to the study area.

Based on specialist assessment, the proposal is considered not at variance to this principle.

# 6.5 Principle e: Significance as a remnant of native vegetation in the area that has been extensively cleared

Native vegetation should not be cleared if it is significant as remnant vegetation in an area that has been extensively cleared.

The majority of the Pilbara region has not been extensively cleared. However, grazing, inappropriate fire regimes and weed invasion have greatly altered the vegetation in some areas. The study area lies within two of Beard's mapping units - Hamersley 181 and Hamersley 567.

The current extent of the Beard (1975) mapping units Hamersley 181 and Hamersley 567 has been estimated to be over 97% of their pre-European extent remaining and are considered to be of 'least concern'. Vegetation types within the study area would not represent remnant stands of extensively cleared vegetation.

Based on specialist assessment, the proposal is considered not at variance to this principle.

#### 6.6 Principle f: Impact on any watercourse and / or wetlands

Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.

No flow lines are evident within the study area and the study area is not considered to be associated with watercourses or wetlands.

Based on specialist assessment, the proposal is considered not at variance to this principle.

#### 6.7 Principle g: Potential to cause appreciable land degradation

Native vegetation should not be cleared if the clearing of vegetation is likely to cause appreciable land degradation.

The study area lies within vegetation considered to be of low conservation value which has been partly disturbed and is in Poor condition. The Proposal is not expected to result in soil erosion, nutrient export, water-logging/flooding, acidification, salinization or deep subsoil compaction.

Based on specialist assessment, the proposal is considered not at variance to this principle.

## 6.8 Principle h: Potential to impact on the environmental values of adjacent or nearby conservation areas

Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.

There are no nearby conservation areas.

Based on specialist assessment, the proposal is considered not at variance to this principle.

6.9 Principle i: Potential deterioration in the quality of surface or underground water

Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.

No permanent or semi-permanent water features occur in or adjacent to the study area. The study area lies within the Pilbara Groundwater Area and the Roebourne/Ashburton Groundwater Subarea. Due to the small size of the study area, it is considered unlikely the Proposal will negatively impact on this Water Reserve.

The study area is located within the Paraburdoo Priority 1 (P1) Public Drinking Water Supply Area (PDWSA). The proposed clearing of 0.54 ha for the replacement of an existing town water supply bore to secure drinking water for the Paraburdoo township is considered compatible with Water Quality Protection Note 25: land use compatibility tables for public drinking water source areas (DWER 2021). The groundwater within the PDSWA and CPS 6110 intersection area ranges from 10-15mbgl; the proposed clearing of native vegetation is at surface only, and therefore unlikely to have impacts on groundwater quality at such depths. Additionally, there will be no land use intensification as a result of the proposed clearing.

Based on specialist assessment, the proposal is considered not at variance to this principle.

## 6.10 Principle j: Potential of clearing to cause, or exacerbate, the incidence or intensity of flooding

Native vegetation should not be cleared if the clearing of vegetation is likely to cause, or exacerbate, the incidence of flooding.

Local flooding occurs seasonally in the Pilbara region as a result of cyclonic activity and sporadic thunderstorm activity. The small scale of cleared proposed is not expected to exacerbate the incidence or intensity of flooding in the area.

Based on specialist assessment, the proposal is considered not at variance to this principle.

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### 8. Appendices

#### Appendix 1: Results of NatureMap and EPBC Protected Matters database searches

TAXON	CLASS	CONS	KINGDOM
Acanthagenys rufogularis	BIRD		Animalia
Acanthiza apicalis	BIRD		Animalia
Acanthiza robustirostris	BIRD		Animalia
Acanthiza uropygialis	BIRD		Animalia
Accipiter cirrocephalus	BIRD		Animalia
Accipiter cirrocephalus subsp. cirrocephalus	BIRD		Animalia
Accipiter fasciatus	BIRD		Animalia
Accipiter fasciatus subsp. fasciatus	BIRD		Animalia
Acrocephalus australis	BIRD		Animalia
Acrocephalus australis subsp. gouldi	BIRD		Animalia
Actitis hypoleucos	BIRD	MI	Animalia
Actitis hypoleucos (Tringa hypoleucos)	BIRD		Animalia
Aegotheles cristatus	BIRD		Animalia
Amytornis striatus	BIRD		Animalia
Anas gracilis	BIRD		Animalia
Anas superciliosa	BIRD		Animalia
Anhinga novaehollandiae	BIRD		Animalia
Anthus novaeseelandiae	BIRD		Animalia
Aquila audax	BIRD		Animalia
Ardea modesta	BIRD		Animalia
Ardea novaehollandiae	BIRD		Animalia
Ardea pacifica	BIRD		Animalia
Ardeotis australis	BIRD		Animalia
Artamus cinereus	BIRD		Animalia
Artamus cinereus subsp. melanops	BIRD		Animalia
Artamus minor	BIRD		Animalia
Aythya australis	BIRD		Animalia
Barnardius zonarius	BIRD		Animalia
Cacatua roseicapilla	BIRD		Animalia
Cacatua roseicapilla subsp. roseicapilla	BIRD		Animalia
Cacatua sanguinea	BIRD		Animalia
Cacomantis pallidus	BIRD		Animalia
Calidris acuminata	BIRD	MI	Animalia
Calidris subminuta	BIRD	MI	Animalia
Centropus phasianinus	BIRD		Animalia
Certhionyx variegatus	BIRD		Animalia
Chrysococcyx basalis	BIRD		Animalia
Cincloramphus cruralis	BIRD		Animalia
Cinclosoma castaneothorax	BIRD		Animalia
Circus approximans	BIRD		Animalia
Circus assimilis	BIRD		Animalia

Colluricincla harmonica  EIRD  Coracina novaehollandiae  BIRD  Coracina novaehollandiae subsp. subpallida  BIRD  Corvus bennetti  BIRD  Corvus orru  BIRD  Corvus orru  BIRD  Cracticus nigrogularis  BIRD  Cracticus tibicen  BIRD  Cracticus torquatus  BIRD  Cygnus atratus  BIRD  Dacelo leachii  BIRD  Dicaeum hirundinaceum  BIRD  Dicrurus bracteatus  BIRD  Egretta novaehollandiae  Elsavornis melanops  Elseyornis melanops  Emblema pictum  BIRD  Epthianura tricolor  Epremiornis carteri  BIRD  Eurostopodus argus  Falco lengipennis  Falco longipennis  BIRD  Falco longipennis subsp. longipennis  Fulco  Geopelia striata  BIRD  Goorwis placida  BIRD  Geopelia striata  BIRD  Geopelia striata		Animalia
Coracina novaehollandiae subsp. subpallida  Corvus bennetti  BIRD  Corvus orru  BIRD  Corvus orru subsp. cecilae  BIRD  Cracticus nigrogularis  BIRD  Cracticus tibicen  BIRD  Cracticus torquatus  BIRD  Corus atratus  BIRD  Dacelo leachii  BIRD  Dicaeum hirundinaceum  BIRD  Dicaeum hirundinaceum  BIRD  Egretta novaehollandiae  Elanus caeruleus  BIRD  Elseyornis melanops  BIRD  Enblema pictum  BIRD  Eolophus roseicapillus  Epthianura tricolor  BIRD  Erythrogonys cinctus  BIRD  Eurostopodus argus  Falco berigora  Falco cenchroides  BIRD  Falco longipennis  BIRD  Falco longipennis subsp. longipennis  Geopelia striata  BIRD  Geopelia striata		Animalia
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Falco berigora BIRD Falco cenchroides BIRD Falco hypoleucos BIRD Falco longipennis BIRD Falco longipennis subsp. longipennis BIRD Fulica atra BIRD Gavicalis virescens BIRD Geopelia cuneata BIRD Geopelia striata BIRD Geopelia striata subsp. placida BIRD		Animalia
Falco cenchroides  Falco hypoleucos  BIRD  Falco longipennis  BIRD  Falco longipennis subsp. longipennis  BIRD  Fulica atra  BIRD  Gavicalis virescens  BIRD  Geopelia cuneata  BIRD  Geopelia striata  BIRD  Geopelia striata subsp. placida  BIRD		Animalia
Falco hypoleucosBIRDFalco longipennisBIRDFalco longipennis subsp. longipennisBIRDFulica atraBIRDGavicalis virescensBIRDGeopelia cuneataBIRDGeopelia striataBIRDGeopelia striata subsp. placidaBIRD		Animalia
Falco longipennisBIRDFalco longipennis subsp. longipennisBIRDFulica atraBIRDGavicalis virescensBIRDGeopelia cuneataBIRDGeopelia striataBIRDGeopelia striata subsp. placidaBIRD		Animalia
Falco longipennis subsp. longipennis  Fulica atra  BIRD  Gavicalis virescens  BIRD  Geopelia cuneata  BIRD  Geopelia striata  BIRD  Geopelia striata subsp. placida  BIRD	VU	Animalia
Fulica atraBIRDGavicalis virescensBIRDGeopelia cuneataBIRDGeopelia striataBIRDGeopelia striata subsp. placidaBIRD		Animalia
Gavicalis virescensBIRDGeopelia cuneataBIRDGeopelia striataBIRDGeopelia striata subsp. placidaBIRD		Animalia
Geopelia cuneata BIRD Geopelia striata BIRD Geopelia striata subsp. placida BIRD		Animalia
Geopelia striata BIRD Geopelia striata subsp. placida BIRD		Animalia
Geopelia striata subsp. placida BIRD		Animalia
		Animalia
		Animalia
Geophaps plumifera BIRD		Animalia
Gerygone fusca BIRD		Animalia
Gerygone fusca subsp. mungi BIRD		Animalia
Grallina cyanoleuca BIRD		Animalia
Haliastur sphenurus BIRD		Animalia
Hamirostra melanosternon BIRD		Animalia
Hieraaetus morphnoides BIRD		Animalia
Himantopus himantopus BIRD		Animalia
Lalage tricolor BIRD		Animalia
Lichenostomus penicillatus BIRD		Animalia
Lichenostomus virescens BIRD		Animalia

TAXON	CLASS CO	ONS KINGDOM
Lichmera indistincta	BIRD	Animalia
Malacorhynchus membranaceus	BIRD	Animalia
Malurus lamberti	BIRD	Animalia
Malurus lamberti subsp. assimilis	BIRD	Animalia
Malurus leucopterus	BIRD	Animalia
Manorina flavigula	BIRD	Animalia
Megalurus cruralis	BIRD	Animalia
Melanodryas cucullata	BIRD	Animalia
Melopsittacus undulatus	BIRD	Animalia
Merops ornatus	BIRD	Animalia
Microcarbo melanoleucos	BIRD	Animalia
Milvus migrans	BIRD	Animalia
Neochmia ruficauda	BIRD	Animalia
Ninox boobook	BIRD	Animalia
Ninox boobook boobook	BIRD	Animalia
Ninox novaeseelandiae	BIRD	Animalia
Ninox novaeseelandiae subsp. boobook	BIRD	Animalia
Nycticorax caledonicus	BIRD	Animalia
Nymphicus hollandicus	BIRD	Animalia
Ocyphaps lophotes	BIRD	Animalia
Oreoica gutturalis	BIRD	Animalia
Pachycephala rufiventris	BIRD	Animalia
Pachycephala rufiventris subsp. rufiventris	BIRD	Animalia
Pardalotus rubricatus	BIRD	Animalia
Petrochelidon ariel	BIRD	Animalia
Petrochelidon nigricans	BIRD	Animalia
Petroica cucullata	BIRD	Animalia
Petroica goodenovii	BIRD	Animalia
Phaps chalcoptera	BIRD	Animalia
Platycercus zonarius	BIRD	Animalia
Platycercus zonarius subsp. zonarius	BIRD	Animalia
Podargus strigoides	BIRD	Animalia
Poliocephalus poliocephalus	BIRD	Animalia
Pomatostomus superciliosus	BIRD	Animalia
Pomatostomus temporalis	BIRD	Animalia
Pomatostomus temporalis subsp. rubeculus	BIRD	Animalia
Porphyrio porphyrio	BIRD	Animalia
Psophodes occidentalis	BIRD	Animalia
Ptilonorhynchus guttatus	BIRD	Animalia
Ptilonorhynchus maculatus guttatus	BIRD	Animalia
Ptilotula keartlandi	BIRD	Animalia
Ptilotula penicillata	BIRD	Animalia
Purnella albifrons	BIRD	Animalia
Pyrrholaemus brunneus	BIRD	Animalia

Rhipidura albiscapa  Rhipidura fuliginosa  Rhipidura leucophrys  Rhipidura leucophrys subsp. leucophrys  Smicrornis brevirostris  Stipiturus ruficeps	BIRD BIRD BIRD BIRD BIRD BIRD BIRD BIRD		Animalia Animalia Animalia Animalia Animalia Animalia
Rhipidura fuliginosa  Rhipidura leucophrys  Rhipidura leucophrys subsp. leucophrys  Smicrornis brevirostris  Stipiturus ruficeps	BIRD BIRD BIRD BIRD BIRD BIRD		Animalia Animalia Animalia Animalia
Rhipidura leucophrys  Rhipidura leucophrys subsp. leucophrys  Smicrornis brevirostris  Stipiturus ruficeps	BIRD BIRD BIRD BIRD BIRD		Animalia Animalia Animalia
Rhipidura leucophrys subsp. leucophrys  Smicrornis brevirostris  Stipiturus ruficeps	BIRD BIRD BIRD BIRD		Animalia Animalia
Smicrornis brevirostris E Stipiturus ruficeps E	BIRD BIRD BIRD		Animalia
Stipiturus ruficeps E	BIRD BIRD		
	BIRD		
			Animalia
Tachybaptus novaehollandiae	BIRD		Animalia
Tachybaptus novaehollandiae novaehollandiae			Animalia
Tachybaptus ruficollis tricolor	BIRD		Animalia
Taeniopygia guttata	BIRD		Animalia
Taeniopygia guttata subsp. castanotis	BIRD		Animalia
Threskiornis molucca	BIRD		Animalia
Threskiornis spinicollis	BIRD		Animalia
Todiramphus pyrrhopygius	BIRD		Animalia
Todiramphus sanctus	BIRD		Animalia
Tringa glareola	BIRD	MI	Animalia
Turnix velox	BIRD		Animalia
Abutilon amplum	DICOT		Plantae
Abutilon cryptopetalum	DICOT		Plantae
Abutilon fraseri	DICOT		Plantae
Abutilon fraseri subsp. fraseri	DICOT		Plantae
Abutilon lepidum [	DICOT		Plantae
Abutilon otocarpum	DICOT		Plantae
Abutilon sp. (3) Channar Survey)	DICOT		Plantae
Abutilon sp. (4) Channar Survey)	DICOT		Plantae
Abutilon sp. (5) Channar Survey)	DICOT		Plantae
Abutilon sp. (6) aff. lepidium B)	DICOT		Plantae
Abutilon sp. (6) Channar Survey)	DICOT		Plantae
Abutilon sp. 1 (Channar Survey)	DICOT		Plantae
Abutilon sp. 5 (= aff. lepidum A)	DICOT		Plantae
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	DICOT		Plantae
Acacia ampliceps	DICOT		Plantae
Acacia ampliceps x sclerosperma subsp. sclerosperma	DICOT		Plantae
Acacia aptaneura	DICOT		Plantae
Acacia atkinsiana [	DICOT		Plantae
Acacia ayersiana [	DICOT		Plantae
Acacia ayersiana x incurvaneura	DICOT		Plantae
Acacia bivenosa	DICOT		Plantae
Acacia bivenosa x sclerosperma subsp. sclerosperma	DICOT		Plantae
Acacia citrinoviridis	DICOT		Plantae
Acacia coriacea subsp. pendens	DICOT		Plantae
Acacia cuspidifolia	DICOT		Plantae
Acacia fuscaneura	DICOT		Plantae

TAXON	CLASS	CONS	KINGDOM
Acacia hamersleyensis	DICOT		Plantae
Acacia incurvaneura	DICOT		Plantae
Acacia maitlandii	DICOT		Plantae
Acacia marramamba	DICOT		Plantae
Acacia pruinocarpa	DICOT		Plantae
Acacia pyrifolia var. morrisonii	DICOT		Plantae
Acacia pyrifolia var. pyrifolia	DICOT		Plantae
Acacia rhodophloia	DICOT		Plantae
Acacia rhodophloia x sibirica	DICOT		Plantae
Acacia sclerosperma subsp. sclerosperma	DICOT		Plantae
Acacia sibirica	DICOT		Plantae
Acacia spondylophylla	DICOT		Plantae
Acacia synchronicia	DICOT		Plantae
Acacia tetanophylla	DICOT		Plantae
Acacia tetragonophylla	DICOT		Plantae
Acacia thoma	DICOT		Plantae
Acacia wanyu	DICOT		Plantae
Acacia xiphophylla	DICOT		Plantae
Adriana tomentosa var. tomentosa	DICOT		Plantae
Aerva javanica	DICOT		Plantae
Aluta quadrata	DICOT	EN	Plantae
Amaranthus cuspidifolius	DICOT		Plantae
Amaranthus undulatus	DICOT		Plantae
Ammannia multiflora	DICOT		Plantae
Amyema fitzgeraldii	DICOT		Plantae
Amyema gibberula var. gibberula	DICOT		Plantae
Amyema sanguinea var. sanguinea	DICOT		Plantae
Amyema sp. Fortescue (M.E. Trudgen 5358)	DICOT		Plantae
Androcalva luteiflora	DICOT		Plantae
Angianthus tomentosus	DICOT		Plantae
Argemone ochroleuca subsp. ochroleuca	DICOT		Plantae
Astrotricha hamptonii	DICOT		Plantae
Atriplex codonocarpa	DICOT		Plantae
Atriplex quadrivalvata	DICOT		Plantae
Boerhavia coccinea	DICOT		Plantae
Boerhavia sp.	DICOT		Plantae
Bonamia pilbarensis	DICOT		Plantae
Calandrinia holtumii	DICOT		Plantae
Calandrinia schistorhiza	DICOT		Plantae
Calandrinia sp. The Pink Hills (F. Obbens FO 19/06)	DICOT		Plantae
Calocephalus knappii	DICOT		Plantae
Calocephalus multiflorus	DICOT		Plantae
Calotis multicaulis	DICOT		Plantae
Capparis spinosa subsp. nummularia	DICOT		Plantae

Carissa lanceolata Chrysocephalum gilesii Cleome oxalidea Cleome viscosa	DICOT DICOT DICOT DICOT DICOT		Plantae Plantae Plantae
Cleome oxalidea	DICOT DICOT		
	DICOT		Plantae
Cleome viscosa	DICOT		
			Plantae
Clerodendrum tomentosum var. lanceolatum	DIGGE		Plantae
Commicarpus australis	DICOT		Plantae
Convolvulus clementii	DICOT		Plantae
Corchorus crozophorifolius	DICOT		Plantae
Corchorus lasiocarpus subsp. lasiocarpus	DICOT		Plantae
Corchorus lasiocarpus subsp. parvus	DICOT		Plantae
Corchorus tridens	DICOT		Plantae
Corymbia candida	DICOT		Plantae
Corymbia ferriticola	DICOT		Plantae
Corymbia hamersleyana	DICOT		Plantae
Corymbia opaca	DICOT		Plantae
Crotalaria cunninghamii subsp. sturtii	DICOT		Plantae
Crotalaria medicaginea	DICOT		Plantae
Crotalaria medicaginea var. neglecta	DICOT		Plantae
Cryptandra monticola	DICOT		Plantae
Cucumis variabilis	DICOT		Plantae
Cullen leucanthum	DICOT		Plantae
Cullen leucochaites	DICOT		Plantae
Datura leichhardtii subsp. leichhardtii	DICOT		Plantae
Dicladanthera forrestii	DICOT		Plantae
Diplopeltis stuartii var. stuartii	DICOT		Plantae
Dipteracanthus australasicus subsp. australasicus	DICOT		Plantae
Dissocarpus paradoxus	DICOT		Plantae
Dodonaea lanceolata var. lanceolata	DICOT		Plantae
Dodonaea pachyneura	DICOT		Plantae
Dodonaea petiolaris	DICOT		Plantae
Dodonaea viscosa	DICOT		Plantae
Duperreya commixta	DICOT		Plantae
Dysphania kalpari	DICOT		Plantae
Dysphania plantaginella	DICOT		Plantae
Dysphania rhadinostachya	DICOT		Plantae
Dysphania rhadinostachya subsp. rhadinostachya	DICOT		Plantae
Enchylaena tomentosa	DICOT		Plantae
Eremophea spinosa	DICOT		Plantae
Eremophila accrescens	DICOT		Plantae
Eremophila canaliculata	DICOT		Plantae
Eremophila coacta	DICOT	P3	Plantae
Eremophila cryptothrix	DICOT		Plantae
Eremophila cuneifolia	DICOT		Plantae
Eremophila exilifolia	DICOT		Plantae

TAXON	CLASS	CONS	KINGDOM
Eremophila forrestii subsp. forrestii	DICOT		Plantae
Eremophila forrestii subsp. hastieana	DICOT		Plantae
Eremophila fraseri subsp. fraseri	DICOT		Plantae
Eremophila jucunda subsp. pulcherrima	DICOT		Plantae
Eremophila lachnocalyx	DICOT		Plantae
Eremophila latrobei	DICOT		Plantae
Eremophila latrobei subsp. filiformis	DICOT		Plantae
Eremophila latrobei subsp. glabra	DICOT		Plantae
Eremophila latrobei subsp. latrobei	DICOT		Plantae
Eremophila longifolia	DICOT		Plantae
Eremophila magnifica subsp. magnifica	DICOT	P4	Plantae
Eremophila oppositifolia subsp. angustifolia	DICOT		Plantae
Eremophila petrophila subsp. petrophila	DICOT		Plantae
Eremophila phyllopoda subsp. obliqua	DICOT		Plantae
Eremophila platycalyx subsp. pardalota	DICOT		Plantae
Eremophila reticulata	DICOT		Plantae
Eremophila sp.	DICOT		Plantae
Eremophila sp. Hamersley Range (K. Walker KW 136)	DICOT	P3	Plantae
Erodium cygnorum	DICOT		Plantae
Eucalyptus camaldulensis subsp. obtusa	DICOT		Plantae
Eucalyptus gamophylla	DICOT		Plantae
Eucalyptus kingsmillii	DICOT		Plantae
Eucalyptus leucophloia subsp. leucophloia	DICOT		Plantae
Eucalyptus repullulans	DICOT		Plantae
Euphorbia australis	DICOT		Plantae
Euphorbia australis var. hispidula	DICOT		Plantae
Euphorbia australis var. subtomentosa	DICOT		Plantae
Euphorbia boophthona	DICOT		Plantae
Euphorbia careyi	DICOT		Plantae
Euphorbia coghlanii	DICOT		Plantae
Euphorbia sp.	DICOT		Plantae
Euphorbia tannensis	DICOT		Plantae
Euphorbia tannensis subsp. eremophila	DICOT		Plantae
Euphorbia trigonosperma	DICOT		Plantae
Evolvulus alsinoides	DICOT		Plantae
Evolvulus alsinoides var. villosicalyx	DICOT		Plantae
Ficus brachypoda	DICOT		Plantae
Flaveria trinervia	DICOT		Plantae
Frankenia hispidula	DICOT		Plantae
Frankenia magnifica	DICOT		Plantae
Glycine tabacina	DICOT		Plantae
Gnephosis arachnoidea	DICOT		Plantae
Gomphrena affinis subsp. pilbarensis	DICOT		Plantae
Gomphrena canescens	DICOT		Plantae

TAXON	CLASS	CONS	KINGDOM
Gomphrena cunninghamii	DICOT		Plantae
Gomphrena kanisii	DICOT		Plantae
Goodenia cusackiana	DICOT		Plantae
Goodenia forrestii	DICOT		Plantae
Goodenia microptera	DICOT		Plantae
Goodenia muelleriana	DICOT		Plantae
Goodenia pascua	DICOT		Plantae
Goodenia scaevolina	DICOT		Plantae
Goodenia sp.	DICOT		Plantae
Goodenia sp. East Pilbara (A.A. Mitchell PRP 727)	DICOT	P3	Plantae
Goodenia stobbsiana	DICOT		Plantae
Goodenia tenuiloba	DICOT		Plantae
Gossypium robinsonii	DICOT		Plantae
Grevillea berryana	DICOT		Plantae
Grevillea saxicola	DICOT	P3	Plantae
Grevillea striata	DICOT		Plantae
Hakea lorea subsp. lorea	DICOT		Plantae
Hakea lorea subsp. suberea	DICOT		Plantae
Harnieria kempeana	DICOT		Plantae
Heliotropium chrysocarpum	DICOT		Plantae
Heliotropium conocarpum	DICOT		Plantae
Heliotropium crispatum	DICOT		Plantae
Heliotropium heteranthum	DICOT		Plantae
Heliotropium inexplicitum	DICOT		Plantae
Heliotropium ovalifolium	DICOT		Plantae
Heliotropium pachyphyllum	DICOT		Plantae
Heliotropium tenuifolium	DICOT		Plantae
Hibiscus burtonii	DICOT		Plantae
Hibiscus campanulatus	DICOT	P1	Plantae
Hibiscus coatesii	DICOT		Plantae
Hibiscus goldsworthii	DICOT		Plantae
Hibiscus sp.	DICOT		Plantae
Hibiscus sp. Gardneri (A.L. Payne PRP 1435)	DICOT		Plantae
Hibiscus sp. Gurinbiddy Range (M.E. Trudgen MET 15708)	DICOT	P2	Plantae
Hibiscus sturtii	DICOT		Plantae
Hibiscus sturtii var. campylochlamys	DICOT		Plantae
Hibiscus sturtii var. platychlamys	DICOT		Plantae
Hybanthus aurantiacus	DICOT		Plantae
Indigofera colutea	DICOT		Plantae
Indigofera decipiens	DICOT		Plantae
Indigofera monophylla	DICOT		Plantae
Indigofera rugosa	DICOT		Plantae
Ipomoea muelleri	DICOT		Plantae
lxiochlamys cuneifolia	DICOT		Plantae

TAXON	CLASS	CONS	KINGDOM
Jasminum didymum	DICOT		Plantae
Jasminum didymum subsp. lineare	DICOT		Plantae
Lawrencia densiflora	DICOT		Plantae
Lawrencia glomerata	DICOT		Plantae
Lawrencia sp. Mulein Station (Setter 317)	DICOT		Plantae
Lepidium muelleri-ferdinandii	DICOT		Plantae
Lepidium oxytrichum	DICOT		Plantae
epidium pedicellosum	DICOT		Plantae
epidium phlebopetalum	DICOT		Plantae
epidium platypetalum	DICOT		Plantae
obelia arnhemiaca	DICOT		Plantae
obelia heterophylla subsp. pilbarensis	DICOT		Plantae
otus cruentus	DICOT		Plantae
ysiana casuarinae	DICOT		Plantae
Maireana eriosphaera	DICOT		Plantae
Maireana georgei	DICOT		Plantae
Maireana melanocoma	DICOT		Plantae
Maireana planifolia	DICOT		Plantae
Maireana planifolia x villosa	DICOT		Plantae
Maireana suaedifolia	DICOT		Plantae
Maireana thesioides	DICOT		Plantae
Maireana tomentosa	DICOT		Plantae
Maireana tomentosa subsp. tomentosa	DICOT		Plantae
Maireana villosa	DICOT		Plantae
Malvastrum americanum	DICOT		Plantae
Melaleuca bracteata	DICOT		Plantae
Melaleuca glomerata	DICOT		Plantae
Melaleuca linophylla	DICOT		Plantae
Melhania oblongifolia	DICOT		Plantae
Neptunia dimorphantha	DICOT		Plantae
Nicotiana benthamiana	DICOT		Plantae
Nicotiana karijini	DICOT		Plantae
Vicotiana occidentalis	DICOT		Plantae
Nicotiana occidentalis subsp. occidentalis	DICOT		Plantae
Votoleptopus decaisnei	DICOT		Plantae
Oldenlandia crouchiana	DICOT		Plantae
Olearia mucronata	DICOT	P3	Plantae
Olearia xerophila	DICOT		Plantae
Dperculina aequisepala	DICOT		Plantae
Petalostylis labicheoides	DICOT		Plantae
Phyllanthus maderaspatensis	DICOT		Plantae
Pilbara trudgenii	DICOT	P3	Plantae
Pimelea microcephala subsp. microcephala	DICOT	. •	Plantae
Pittosporum sp.	DICOT		Plantae

Pluchea ubelifilora         DICOT         Plantae           Polycarpaea longifora         DICOT         Plantae           Polygala inogifolia         DICOT         Plantae           Polygala inogifolia         DICOT         Plantae           Portulaca ointraterranea         DICOT         Plantae           Portulaca oircacea         DICOT         Plantae           Prescutaminera abilifora         DICOT         Plantae           Pseudognaphalium luteoalbum         DICOT         Plantae           Psydrax suaveolens         DICOT         Plantae           Psydrax suaveolens         DICOT         Plantae           Pitotus aervoides         DICOT         Plantae           Pitotus aervoides         DICOT         Plantae           Pitotus aervoides         DICOT         Plantae           Pitotus aeritafolius         DICOT         Plantae           Pitotus auriculfolius         DICOT         Plantae           Pitotus auriculfolius <th>TAXON</th> <th>CLASS</th> <th>CONS</th> <th>KINGDOM</th>	TAXON	CLASS	CONS	KINGDOM
Polygala longifolia DICOT Plantae Polymeria ambigua DICOT Plantae Portuliaca intraterranea DICOT Plantae Portuliaca intraterranea DICOT Plantae Portuliaca oleracea DICOT Plantae Portuliaca oleracea DICOT Plantae Prestanthera albiflora DICOT Plantae Pseudognaphalium luteoibium DICOT Plantae Psydrax suaveolens DICOT Plantae Ptilotus aervoides DICOT Plantae Ptilotus aervoides DICOT Plantae Ptilotus aervoides DICOT Plantae Ptilotus calostachyus DICOT Plantae Ptilotus mermentii DICOT Plantae Ptilotus mermentii DICOT Plantae Ptilotus macrocephalus DICOT Plantae Ptilotus macrocephalus DICOT Plantae Ptilotus macrocephalus DICOT Plantae Ptilotus macrocephalus DICOT Plantae Ptilotus schwartzii DICOT Plantae Ptilotus polystachyus DICOT Plantae Ptilotus schwartzii DICOT Plantae Ptilotus schwartzii DICOT Plantae Ptilotus polystachyus DICO	Pluchea rubelliflora	DICOT		Plantae
Polymeria ambigua DICOT Plantae Portulaca intraterranea DICOT Plantae Portulaca oleracea DICOT Plantae Portulaca oleracea DICOT Plantae Portulaca oleracea DICOT Plantae Postentirera albiflora DICOT Plantae Pseudognaphalium luteoalbum DICOT Plantae Psydrax tatfolia DICOT Plantae Psydrax suaveolens DICOT Plantae Psydrax suaveolens DICOT Plantae Pitiotus aervoides DICOT Plantae Pitiotus aervoides DICOT Plantae Pitiotus aervoides DICOT Plantae Pitiotus auriculfolius DICOT Plantae Pitiotus carinatus DICOT Plantae Pitiotus cementii DICOT Plantae Pitiotus exaltatus DICOT Plantae Pitiotus exaltatus DICOT Plantae Pitiotus exaltatus DICOT Plantae Pitiotus gomphrenoides DICOT Plantae Pitiotus pomphrenoides DICOT Plantae Pitiotus schipteroides DICOT Plantae Pitiotus nacrocephalus DICOT Plantae Pitiotus nacrocephalus DICOT Plantae Pitiotus nacrocephalus DICOT Plantae Pitiotus inchocephalus DICOT Plantae Pitiotus inchocephalus DICOT Plantae Pitiotus inchocephalus DICOT Plantae Rhodanthe margarethae DICOT Plantae	Polycarpaea longiflora	DICOT		Plantae
Portulaca intraterranea DICOT Plantae Portulaca oleracea DICOT Plantae Prostanthera albifora DICOT Plantae Prostanthera albifora DICOT Plantae Prostanthera albifora DICOT Plantae Psydrax latifolia DICOT Plantae Psydrax latifolia DICOT Plantae Psydrax suaveolens DICOT Plantae Psydrax suaveolens DICOT Plantae Pitotox suaveolens DICOT Plantae Pitiotox sarvoides DICOT Plantae Pitiotox calostachyus DICOT Plantae Pitiotox calostachyus DICOT Plantae Pitiotox calostachyus DICOT Plantae Pitiotox carinatus DICOT Plantae Pitiotox carinatus DICOT Plantae Pitiotox carinatus DICOT Plantae Pitiotox carinatus DICOT Plantae Pitiotox sarinatus DICOT Plantae Pitiotox sarinatus DICOT Plantae Pitiotox gomphrenoides DICOT Plantae Pitiotox somentii DICOT Plantae Pitiotox somentii DICOT Plantae Pitiotox somentii DICOT Plantae Pitiotox somentii DICOT Plantae Pitiotox nobilis DICOT Plantae Rhodanthe margarethae DICOT Plantae Rhodanthe nobilunda DICOT Plantae Rhodanthe margarethae DICOT Plantae Rodanthe margarethae DICOT Planta	Polygala longifolia	DICOT		Plantae
Portulace oleracea DICOT Plantae Prostanthera albiflora DICOT Plantae Pseudognaphalium luteoalbum DICOT Plantae Psydrax kaltolia DICOT Plantae Psydrax sultolia DICOT Plantae Psydrax sultolia DICOT Plantae Psydrax sultolia DICOT Plantae Psydrax sultolia DICOT Plantae Psydrax suaveolens DICOT Plantae Ptilocus aervoides DICOT Plantae Ptilocus aervoides DICOT Plantae Ptilocus aervoides DICOT Plantae Ptilocus auriculifolius DICOT Plantae Ptilocus calostachyus DICOT Plantae Ptilocus carinatus DICOT Plantae Ptilocus drummondii DICOT Plantae Ptilocus drummondii DICOT Plantae Ptilocus gomphrenoides DICOT Plantae Ptilocus gomphrenoides DICOT Plantae Ptilocus macrocephalus DICOT Plantae Ptilocus macrocephalus DICOT Plantae Ptilocus nobilis DICOT Plantae Rhodanthe margarethae DICOT Plantae Roepera kochii DICOT Plantae Sauropus crassifolius DICOT Plantae Sauropus crassifolius DICOT Plantae Sauropus crassifolius DICOT Plantae	Polymeria ambigua	DICOT		Plantae
Prostanthera albiflora         DICOT         Plantae           Pseudognaphalium luteoalbum         DICOT         Plantae           Psydrax latifolia         DICOT         Plantae           Psydrax suaveolens         DICOT         Plantae           Pterocaulon sphacelatum         DICOT         Plantae           Ptilotus aervoides         DICOT         Plantae           Ptilotus aerolasius         DICOT         Plantae           Ptilotus calculifolius         DICOT         Plantae           Ptilotus calculatifolius         DICOT         Plantae           Ptilotus carinatus         DICOT         Plantae           Ptilotus carinatus         DICOT         Plantae           Ptilotus drummondii         DICOT         Plantae           Ptilotus drummondii         DICOT         Plantae           Ptilotus gomphrenoides         DICOT         Plantae           Ptilotus pomphrenoides         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus poly	Portulaca intraterranea	DICOT		Plantae
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Psydrax suaveolens  Plerocaulon sphacelatum  DICOT  Plantae  Pitiotus aervoides  DICOT  Pilotus philotus aervoides  DICOT  Pilotus aervoides  DICOT  Pilotus philotus aervoides  DICOT  Pilotus philotus aervoides  DICOT  Pilotus aervoides  DICOT  Pilotus philotus aervoides  Pitiotus carinatus  DICOT  Pilotus philotus carinatus  Pitiotus carinatus  DICOT  Pilotor  Pilotus philotus cerentii  DICOT  Pilotor  P	Pseudognaphalium luteoalbum	DICOT		Plantae
Plerocaulon sphacelatum Pitiotus aervoides DICOT Plantae Pitiotus aervoides DICOT Plantae Pitiotus aervoides DICOT Plantae Pitiotus aervoides DICOT Plantae Pitiotus auriculifolius DICOT Plantae Pitiotus calostachyus DICOT Plantae Pitiotus calostachyus DICOT Plantae Pitiotus clementii DICOT Plantae Pitiotus clementii DICOT Plantae Pitiotus drummondii DICOT Plantae Pitiotus grapharenoides DICOT Plantae Pitiotus pomphrenoides DICOT Plantae Pitiotus macrocephalus DICOT Plantae Pitiotus nobilis DICOT Plantae Pitiotus nobilis DICOT Plantae Pitiotus polystachyus DICOT Plantae Pitiotus polystachyus DICOT Plantae Pitiotus polystachyus DICOT Plantae Pitiotus polystachyus DICOT Plantae Pitiotus frichocephalus DICOT Plantae Rhodanthe fioribunda DICOT Plantae Rhodanthe maryonii DICOT Plantae Roepera kochii DICOT Plantae Rapolus sp. DICOT Plantae Salsola australis DICOT Plantae Salsola australis DICOT Plantae Salsola australis DICOT Plantae Salsola australis DICOT Plantae	Psydrax latifolia	DICOT		Plantae
Ptilotus aervoides         DICOT         Plantae           Ptilotus astrolasius         DICOT         Plantae           Ptilotus satrolasius         DICOT         Plantae           Ptilotus calostachyus         DICOT         Plantae           Ptilotus carinatus         DICOT         Plantae           Ptilotus carinatus         DICOT         Plantae           Ptilotus drummondii         DICOT         Plantae           Ptilotus drummondii         DICOT         Plantae           Ptilotus schaltatus         DICOT         Plantae           Ptilotus pomphrenoides         DICOT         Plantae           Ptilotus poliperoides         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus poliperoides         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus schwartzii	Psydrax suaveolens	DICOT		Plantae
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Piliotus auriculifolius         DICOT         Plantae           Ptilotus calostachyus         DICOT         Plantae           Ptilotus carinatus         DICOT         Plantae           Ptilotus cementii         DICOT         Plantae           Ptilotus drummondii         DICOT         Plantae           Ptilotus exaltatus         DICOT         Plantae           Ptilotus exaltatus         DICOT         Plantae           Ptilotus pelipteroides         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus trichocephalus         DICOT         Plantae           Ptilotus trichocephalus         DICOT         Plantae           Rhodanthe floribunda         DICOT         Plantae           Rhodanthe margarethae         DICOT         Plantae           Rhodanthe margarethae         DICOT         Plantae           Rhynchosia australis         DICOT         Plantae           Rhynchosia minima </td <td>Ptilotus aervoides</td> <td>DICOT</td> <td></td> <td>Plantae</td>	Ptilotus aervoides	DICOT		Plantae
Piliotus calostachyus         DICOT         Plantae           Ptilotus carinatus         DICOT         Plantae           Ptilotus clementii         DICOT         Plantae           Ptilotus drummondii         DICOT         Plantae           Ptilotus exaltatus         DICOT         Plantae           Ptilotus gomphrenoides         DICOT         Plantae           Ptilotus polipteroides         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus obovatus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus trichocephalus         DICOT         Plantae           Ptilotus trichocephalus         DICOT         Plantae           Rhodanthe floribunda         DICOT         Plantae           Rhodanthe margarethae         DICOT         Plantae           Rhodanthe margarethae         DICOT         Plantae           Rhodanthe margarethae         DICOT         Plantae           Rhynchosia australis         DICOT         Plantae           Rhynchosia minima <td>Ptilotus astrolasius</td> <td>DICOT</td> <td></td> <td>Plantae</td>	Ptilotus astrolasius	DICOT		Plantae
Piliotus carinatus         DICOT         Plantae           Ptilotus clementii         DICOT         Plantae           Ptilotus drummondii         DICOT         Plantae           Ptilotus exaltatus         DICOT         Plantae           Ptilotus gomphrenoides         DICOT         Plantae           Ptilotus helipteroides         DICOT         Plantae           Ptilotus macrocephalius         DICOT         Plantae           Ptilotus mobilis         DICOT         Plantae           Ptilotus obovatus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus trichocephalus         DICOT         Plantae           Ptilotus trichocephalus         DICOT         Plantae           Rhagadia eremaea         DICOT         Plantae           Rhodanthe fioribunda         DICOT         Plantae           Rhodanthe margarethae         DICOT         Plantae           Rhodanthe margarethae         DICOT         Plantae           Rhynchosia australis         DICOT         Plantae           Rhynchosia australis         DICOT         Plantae           Roepera kochii <td< td=""><td>Ptilotus auriculifolius</td><td>DICOT</td><td></td><td>Plantae</td></td<>	Ptilotus auriculifolius	DICOT		Plantae
Piliotus clementii         DICOT         Plantae           Ptilotus drummondii         DICOT         Plantae           Ptilotus exaltatus         DICOT         Plantae           Ptilotus gomphrenoides         DICOT         Plantae           Ptilotus helipteroides         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus nobilis         DICOT         Plantae           Ptilotus obovatus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Rhagodia eremaea         DICOT         Plantae           Rhodanthe floribunda         DICOT         Plantae           Rhodanthe margarethae         DICOT         Plantae           Rhopenosia australis         DICOT         Plantae           Repera kochii         DIC	Ptilotus calostachyus	DICOT		Plantae
Piliotus drummondii         DICOT         Plantae           Ptilotus exaltatus         DICOT         Plantae           Ptilotus gomphrenoides         DICOT         Plantae           Ptilotus helipteroides         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus nobilis         DICOT         Plantae           Ptilotus obovatus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus trichocephalus         DICOT         Plantae           Rhagodia eremaea         DICOT         Plantae           Rhodanthe floribunda         DICOT         Plantae           Rhodanthe margarethae         DICOT         Plantae           Rhodanthe margarethae         DICOT         Plantae           Rhynchosia australis         DICOT         Plantae           Rhynchosia minima         DICOT         Plantae           Roepera kochii         DICOT         Plantae           Rumex vesicarius         DICOT         Plantae           Samolus sp.         DICOT	Ptilotus carinatus	DICOT		Plantae
Ptilotus exaltatus         DICOT         Plantae           Ptilotus gomphrenoides         DICOT         Plantae           Ptilotus helipteroides         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus nobilis         DICOT         Plantae           Ptilotus obovatus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus trichocephalus         DICOT         P4           Ptantae         Ptilotus trichocephalus         DICOT         P4           Rhagodia eremaea         DICOT         P1antae           Rhodanthe floribunda         DICOT         P1antae           Rhodanthe margarethae         DICOT         P1antae           Rhodanthe margarethae         DICOT         P1antae           Rhynchosia australis         DICOT         P1antae           Rhynchosia australis         DICOT         P1antae           Roebuckiella cuneata         DICOT         P1antae           Roepera kochii         DICOT         P1antae           Rumex vesicarius         DICOT         P1antae           Sanolus sp.	Ptilotus clementii	DICOT		Plantae
Ptilotus gomphrenoides         DICOT         Plantae           Ptilotus helipteroides         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus nobilis         DICOT         Plantae           Ptilotus obovatus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus trichocephalus         DICOT         P4         Plantae           Rhagodia eremaea         DICOT         P1 antae         P1 antae <td>Ptilotus drummondii</td> <td>DICOT</td> <td></td> <td>Plantae</td>	Ptilotus drummondii	DICOT		Plantae
Ptilotus helipteroides         DICOT         Plantae           Ptilotus macrocephalus         DICOT         Plantae           Ptilotus nobilis         DICOT         Plantae           Ptilotus obovatus         DICOT         Plantae           Ptilotus polystachyus         DICOT         Plantae           Ptilotus schwartzii         DICOT         Plantae           Ptilotus trichocephalus         DICOT         P4         Plantae           Rhagodia eremaea         DICOT         Plantae         Rhodanthe floribunda         DICOT         Plantae           Rhodanthe margarethae         DICOT         Plantae         Rhodanthe margarethae         DICOT         Plantae           Rhynchosia australis         DICOT         Plantae         Rhynchosia australis         DICOT         Plantae           Roebuckiella cuneata         DICOT         Plantae         Roepera kochii         DICOT         Plantae           Rumex vesicarius         DICOT         Plantae         Salsola australis         DICOT         Plantae           Salsola australis         DICOT         Plantae         Santalum lanceolatum         DICOT         Plantae           Sauropus crassifolius         DICOT         Plantae         Scaevola acacioides         DICOT	Ptilotus exaltatus	DICOT		Plantae
Ptilotus macrocephalus       DICOT       Plantae         Ptilotus nobilis       DICOT       Plantae         Ptilotus obovatus       DICOT       Plantae         Ptilotus polystachyus       DICOT       Plantae         Ptilotus schwartzii       DICOT       Plantae         Ptilotus trichocephalus       DICOT       P4         Rhagodia eremaea       DICOT       Plantae         Rhodanthe floribunda       DICOT       Plantae         Rhodanthe margarethae       DICOT       Plantae         Rhodanthe maryonii       DICOT       Plantae         Rhynchosia australis       DICOT       Plantae         Rhynchosia minima       DICOT       Plantae         Roebuckiella cuneata       DICOT       Plantae         Roepera kochii       DICOT       Plantae         Rumex vesicarius       DICOT       Plantae         Salsola australis       DICOT       Plantae         Sanolus sp.       DICOT       Plantae         Santalum lanceolatum       DICOT       Plantae         Sauropus crassifolius       DICOT       Plantae         Scaevola acacioldes       DICOT       Plantae         Schenkia clementii       DICOT       Plantae	Ptilotus gomphrenoides	DICOT		Plantae
Ptilotus nobilis       DICOT       Plantae         Ptilotus obovatus       DICOT       Plantae         Ptilotus polystachyus       DICOT       Plantae         Ptilotus schwartzii       DICOT       Plantae         Ptilotus trichocephalus       DICOT       P4       Plantae         Rhagodia eremaea       DICOT       Plantae         Rhodanthe floribunda       DICOT       Plantae         Rhodanthe margarethae       DICOT       Plantae         Rhodanthe maryonii       DICOT       Plantae         Rhynchosia australis       DICOT       Plantae         Rhynchosia minima       DICOT       Plantae         Roebuckiella cuneata       DICOT       Plantae         Roepera kochii       DICOT       Plantae         Rumex vesicarius       DICOT       Plantae         Salsola australis       DICOT       Plantae         Sanolus sp.       DICOT       Plantae         Santalum lanceolatum       DICOT       Plantae         Sauropus crassifolius       DICOT       Plantae         Scaevola acacioides       DICOT       Plantae         Scaevola spinescens       DICOT       Plantae         Schenkia clementii       DICOT       <	Ptilotus helipteroides	DICOT		Plantae
Ptilotus obovatus       DICOT       Plantae         Ptilotus polystachyus       DICOT       Plantae         Ptilotus schwartzii       DICOT       Plantae         Ptilotus trichocephalus       DICOT       P4       Plantae         Rhagodia eremaea       DICOT       Plantae         Rhodanthe floribunda       DICOT       Plantae         Rhodanthe margarethae       DICOT       Plantae         Rhodanthe maryonii       DICOT       Plantae         Rhynchosia australis       DICOT       Plantae         Rhynchosia minima       DICOT       Plantae         Roepera kochii       DICOT       Plantae         Roepera kochii       DICOT       Plantae         Salsola australis       DICOT       Plantae         Sanolus sp.       DICOT       Plantae         Sanolus sp.       DICOT       Plantae         Santalum lanceolatum       DICOT       Plantae         Scaevola acacioides       DICOT       Plantae         Scaevola spinescens       DICOT       Plantae         Schenkia clementii       DICOT       Plantae	Ptilotus macrocephalus	DICOT		Plantae
Ptilotus polystachyus       DICOT       Plantae         Ptilotus schwartzii       DICOT       Plantae         Ptilotus trichocephalus       DICOT       P4       Plantae         Rhagodia eremaea       DICOT       Plantae         Rhodanthe floribunda       DICOT       Plantae         Rhodanthe margarethae       DICOT       Plantae         Rhodanthe maryonii       DICOT       Plantae         Rhynchosia australis       DICOT       Plantae         Rhynchosia minima       DICOT       Plantae         Roebuckiella cuneata       DICOT       Plantae         Roepera kochii       DICOT       Plantae         Rumex vesicarius       DICOT       Plantae         Salsola australis       DICOT       Plantae         Samolus sp.       DICOT       Plantae         Santalum lanceolatum       DICOT       Plantae         Sauropus crassifolius       DICOT       Plantae         Scaevola acacioides       DICOT       Plantae         Scaevola spinescens       DICOT       Plantae         Schenkia clementii       DICOT       Plantae	Ptilotus nobilis	DICOT		Plantae
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Ptilotus trichocephalusDICOTP4PlantaeRhagodia eremaeaDICOTPlantaeRhodanthe floribundaDICOTPlantaeRhodanthe margarethaeDICOTPlantaeRhodanthe maryoniiDICOTPlantaeRhynchosia australisDICOTPlantaeRhynchosia minimaDICOTPlantaeRoebuckiella cuneataDICOTPlantaeRoepera kochiiDICOTPlantaeRumex vesicariusDICOTPlantaeSalsola australisDICOTPlantaeSamolus sp.DICOTPlantaeSantalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Ptilotus polystachyus	DICOT		Plantae
Rhagodia eremaeaDICOTPlantaeRhodanthe floribundaDICOTPlantaeRhodanthe margarethaeDICOTPlantaeRhodanthe maryoniiDICOTPlantaeRhynchosia australisDICOTPlantaeRhynchosia minimaDICOTPlantaeRoebuckiella cuneataDICOTPlantaeRoepera kochiiDICOTPlantaeRumex vesicariusDICOTPlantaeSalsola australisDICOTPlantaeSamolus sp.DICOTPlantaeSantalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Ptilotus schwartzii	DICOT		Plantae
Rhodanthe floribundaDICOTPlantaeRhodanthe margarethaeDICOTPlantaeRhodanthe maryoniiDICOTPlantaeRhynchosia australisDICOTPlantaeRhynchosia minimaDICOTPlantaeRoebuckiella cuneataDICOTPlantaeRoepera kochiiDICOTPlantaeRumex vesicariusDICOTPlantaeSalsola australisDICOTPlantaeSamolus sp.DICOTPlantaeSantalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Ptilotus trichocephalus	DICOT	P4	Plantae
Rhodanthe margarethaeDICOTPlantaeRhodanthe maryoniiDICOTPlantaeRhynchosia australisDICOTPlantaeRhynchosia minimaDICOTPlantaeRoebuckiella cuneataDICOTPlantaeRoepera kochiiDICOTPlantaeRumex vesicariusDICOTPlantaeSalsola australisDICOTPlantaeSamolus sp.DICOTPlantaeSantalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Rhagodia eremaea	DICOT		Plantae
Rhodanthe maryonii DICOT Plantae Rhynchosia australis DICOT Plantae Rhynchosia minima DICOT Plantae Roebuckiella cuneata DICOT Plantae Roepera kochii DICOT Plantae Rumex vesicarius DICOT Plantae Salsola australis DICOT Plantae Samolus sp. DICOT Plantae Santalum lanceolatum DICOT Plantae Sauropus crassifolius DICOT Plantae Sauropus crassifolius DICOT Plantae Scaevola acacioides DICOT Plantae Scaevola spinescens DICOT Plantae Schenkia clementii DICOT Plantae	Rhodanthe floribunda	DICOT		Plantae
Rhynchosia australisDICOTPlantaeRhynchosia minimaDICOTPlantaeRoebuckiella cuneataDICOTPlantaeRoepera kochiiDICOTPlantaeRumex vesicariusDICOTPlantaeSalsola australisDICOTPlantaeSamolus sp.DICOTPlantaeSantalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Rhodanthe margarethae	DICOT		Plantae
Rhynchosia minimaDICOTPlantaeRoebuckiella cuneataDICOTPlantaeRoepera kochiiDICOTPlantaeRumex vesicariusDICOTPlantaeSalsola australisDICOTPlantaeSamolus sp.DICOTPlantaeSantalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Rhodanthe maryonii	DICOT		Plantae
Roebuckiella cuneataDICOTPlantaeRoepera kochiiDICOTPlantaeRumex vesicariusDICOTPlantaeSalsola australisDICOTPlantaeSamolus sp.DICOTPlantaeSantalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Rhynchosia australis	DICOT		Plantae
Roepera kochiiDICOTPlantaeRumex vesicariusDICOTPlantaeSalsola australisDICOTPlantaeSamolus sp.DICOTPlantaeSantalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Rhynchosia minima	DICOT		Plantae
Rumex vesicariusDICOTPlantaeSalsola australisDICOTPlantaeSamolus sp.DICOTPlantaeSantalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Roebuckiella cuneata	DICOT		Plantae
Salsola australisDICOTPlantaeSamolus sp.DICOTPlantaeSantalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Roepera kochii	DICOT		Plantae
Samolus sp.DICOTPlantaeSantalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Rumex vesicarius			Plantae
Santalum lanceolatumDICOTPlantaeSauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Salsola australis			Plantae
Sauropus crassifoliusDICOTPlantaeScaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Samolus sp.	DICOT		Plantae
Scaevola acacioidesDICOTPlantaeScaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Santalum lanceolatum	DICOT		Plantae
Scaevola spinescensDICOTPlantaeSchenkia clementiiDICOTPlantae	Sauropus crassifolius			Plantae
Schenkia clementii DICOT Plantae	Scaevola acacioides			Plantae
				Plantae
Schoenia ayersii DICOT Plantae	Schenkia clementii			
	Schoenia ayersii	DICOT		Plantae

TAXON	CLASS	CONS	KINGDOM
Sclerolaena bicornis	DICOT		Plantae
Sclerolaena cornishiana	DICOT		Plantae
Sclerolaena cuneata	DICOT		Plantae
Sclerolaena densiflora	DICOT		Plantae
Sclerolaena eriacantha	DICOT		Plantae
Sclerolaena lanicuspis	DICOT		Plantae
Senecio magnificus	DICOT		Plantae
Senna artemisioides	DICOT		Plantae
Senna artemisioides subsp. artemisioides	DICOT		Plantae
Senna artemisioides subsp. helmsii	DICOT		Plantae
Senna artemisioides subsp. helmsii x artemisioides subsp. oligophylla	DICOT		Plantae
Senna artemisioides subsp. oligophylla	DICOT		Plantae
Senna glutinosa subsp. chatelainiana	DICOT		Plantae
Senna glutinosa subsp. glutinosa	DICOT		Plantae
Senna glutinosa subsp. pruinosa	DICOT		Plantae
Senna glutinosa subsp. x luerssenii	DICOT		Plantae
Senna notabilis	DICOT		Plantae
Senna sp.	DICOT		Plantae
Senna sp. Karijini (M.E. Trudgen 10392)	DICOT		Plantae
Senna sp. Meekatharra (E. Bailey 1-26)	DICOT		Plantae
Senna stricta	DICOT		Plantae
Seringia elliptica	DICOT		Plantae
Seringia nephrosperma	DICOT		Plantae
Sesbania cannabina	DICOT		Plantae
Sesbania formosa	DICOT		Plantae
Sida brownii	DICOT		Plantae
Sida calyxhymenia	DICOT		Plantae
Sida echinocarpa	DICOT		Plantae
Sida fibulifera	DICOT		Plantae
Sida laevis	DICOT		Plantae
Sida sp. Barlee Range (S. van Leeuwen 1642)	DICOT	4	Plantae
Sida sp. dark green fruits (S. van Leeuwen 2260)	DICOT		Plantae
Sida sp. Excedentifolia (J.L. Egan 1925)	DICOT		Plantae
Sida sp. Hamersley Range (K. Newbey 10692)	DICOT	P3	Plantae
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	DICOT		Plantae
Sida sp. Shovelanna Hill (S. van Leeuwen 3842)	DICOT		Plantae
Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90)	DICOT		Plantae
Sida spinosa	DICOT		Plantae
Sisymbrium orientale	DICOT		Plantae
Solanum gabrielae	DICOT		Plantae
Solanum horridum	DICOT		Plantae
Solanum lasiophyllum	DICOT		Plantae
Solanum nigrum	DICOT		Plantae
Solanum octonum	DICOT		Plantae

TAXON	CLASS	CONS	KINGDOM
Solanum phlomoides	DICOT		Plantae
Solanum piceum	DICOT		Plantae
Solanum sp.	DICOT		Animalia
Solanum sturtianum	DICOT		Plantae
Sonchus oleraceus	DICOT		Plantae
Stenopetalum anfractum	DICOT		Plantae
Streptoglossa adscendens	DICOT		Plantae
Streptoglossa decurrens	DICOT		Plantae
Streptoglossa liatroides	DICOT		Plantae
Streptoglossa sp.	DICOT		Plantae
Stylobasium spathulatum	DICOT		Plantae
Swainsona forrestii	DICOT		Plantae
Swainsona incei	DICOT		Plantae
Swainsona leeana	DICOT		Plantae
Swainsona maccullochiana	DICOT		Plantae
Swainsona thompsoniana	DICOT	P3	Plantae
Synaptantha tillaeacea var. tillaeacea	DICOT		Plantae
Taplinia saxatilis	DICOT		Plantae
Taraxacum khatoonae	DICOT		Plantae
Tecticornia disarticulata	DICOT		Plantae
Tecticornia sp.	DICOT		Plantae
Tephrosia densa	DICOT		Plantae
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)	DICOT		Plantae
Tephrosia sp. clay soils (S. van Leeuwen et al. PBS 0273)	DICOT		Plantae
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	DICOT		Plantae
Thespesia sp.	DICOT		Plantae
Trachymene pilbarensis	DICOT		Plantae
Trianthema glossostigmum	DICOT		Plantae
Trianthema pilosum	DICOT		Plantae
Trianthema triquetrum	DICOT		Plantae
Tribulus astrocarpus	DICOT		Plantae
Tribulus hirsutus	DICOT		Plantae
Tribulus occidentalis	DICOT		Plantae
Tribulus suberosus	DICOT		Plantae
Trichodesma zeylanicum	DICOT		Plantae
Trigastrotheca molluginea	DICOT		Plantae
Triumfetta chaetocarpa	DICOT		Plantae
Triumfetta clementii	DICOT		Plantae
Vachellia farnesiana	DICOT		Plantae
Ventilago viminalis	DICOT		Plantae
Vigna lanceolata	DICOT		Plantae
Vincetoxicum flexuosum	DICOT		Plantae
Vincetoxicum lineare	DICOT		Plantae
Wahlenbergia tumidifructa	DICOT		Plantae

TAXON	CLASS	CONS	KINGDOM
Waltheria indica	DICOT		Plantae
Waltheria virgata	DICOT		Plantae
Zaleya galericulata subsp. galericulata	DICOT		Plantae
Zygophyllum iodocarpum	DICOT		Plantae
Cheilanthes brownii	FERN		Plantae
Cheilanthes lasiophylla	FERN		Plantae
Cheilanthes tenuifolia	FERN		Plantae
Marsilea hirsuta	FERN		Plantae
Neosilurus hyrtlii	FISH		Animalia
Leiopotherapon unicolor	FISH		Animalia
Melanotaenia australis	FISH		Animalia
Abnitocrella halsei	INVERT		Animalia
Acariformes sp.	INVERT		Animalia
Aeolosoma sp. 1 (PSS)	INVERT		Animalia
Aeolosoma sp. 4 (cf travancorense) (PSS)	INVERT		Animalia
amphipod sp. 2 (PSS)	INVERT		Animalia
Amphipoda sp.	INVERT		Animalia
ant sp.	INVERT		Animalia
Apocyclops dengizicus	INVERT		Animalia
Areacandona 'scanlonii' (PSS)	INVERT		Animalia
Areacandona sp.	INVERT		Animalia
Areacandona sp. 5' (PSS)	INVERT		Animalia
Arrenuridae sp.	INVERT		Animalia
Arrenurus sp. S3 (PSS)	INVERT		Animalia
Arrenurus sp. S4 (PSS)	INVERT		Animalia
Asadipus sp.4	INVERT		Animalia
Atopobathynella sp. A	INVERT		Animalia
Bdelloidea sp.	INVERT		Animalia
beetle sp.	INVERT		Animalia
Bogidiellidae sp.	INVERT		Animalia
Bolborhachium inclinatum	INVERT		Animalia
Boreosaragus sp1	INVERT		Animalia
Bothriembryon 'pilbara'	INVERT		Animalia
Buddelundia sp.	INVERT		Animalia
Buddelundia sp. nov. 10 (= sp. B25)	INVERT		Animalia
Buddelundia sp. nov. 13 (= sp. B27)	INVERT		Animalia
Buddelundia sp. nov. 14 (= sp. B22)	INVERT		Animalia
Buddelundia sp. nov. 16 (= sp. B24)	INVERT		Animalia
Buddelundia sp. nov. 48 (= sp. B21)	INVERT		Animalia
Buddelundia sp. nov. 50 (= sp. B20)	INVERT		Animalia
Calosoma schayeri	INVERT		Animalia
Camponotus discors Forel	INVERT		Animalia
Camponotus novaehollandiae Mayr	INVERT		Animalia
Camponidus novaeriorandiae mayr  Candonid Genus 2 sp. 1 (PSS)	INVERT		Animalia

Chlaenius australis  Cryptoerithrus sp.6  Deminutiocandona cf. 'quasimica' (PSS)  Deminutiocandona sp. 1' (PSS)  Deminutiocandona 'stomachosa' (PSS)  Diacyclops cockingi  Diacyclops humphreysi humphreysi  Diacyclops sobeprolatus  earthworm sp.  Euasteron sp.1  Interpolation in the state of	IVERT IVERT IVERT IVERT IVERT IVERT IVERT IVERT	Animalia Animalia Animalia Animalia Animalia Animalia Animalia Animalia
Cryptoerithrus sp.6  Deminutiocandona cf. 'quasimica' (PSS)  Deminutiocandona sp. 1' (PSS)  Deminutiocandona 'stomachosa' (PSS)  Diacyclops cockingi  Diacyclops humphreysi humphreysi  Diacyclops sobeprolatus  earthworm sp.  Euasteron sp.1  Integration in the sp. i	IVERT IVERT IVERT IVERT IVERT IVERT IVERT	Animalia Animalia Animalia Animalia Animalia
Deminutiocandona cf. 'quasimica' (PSS)  Deminutiocandona sp. 1' (PSS)  Deminutiocandona 'stomachosa' (PSS)  Diacyclops cockingi  Diacyclops humphreysi humphreysi  Diacyclops sobeprolatus  earthworm sp.  Euasteron sp.1  Integration of the property of the	IVERT IVERT IVERT IVERT IVERT IVERT	Animalia Animalia Animalia Animalia
Deminutiocandona sp. 1' (PSS)INDeminutiocandona 'stomachosa' (PSS)INDiacyclops cockingiINDiacyclops humphreysi humphreysiINDiacyclops sobeprolatusINearthworm sp.INEuasteron sp.1INfly sp.IN	IVERT IVERT IVERT IVERT IVERT	Animalia Animalia Animalia
Deminutiocandona 'stomachosa' (PSS)INDiacyclops cockingiINDiacyclops humphreysi humphreysiINDiacyclops sobeprolatusINearthworm sp.INEuasteron sp.1INfly sp.IN	IVERT IVERT IVERT IVERT	Animalia Animalia
Diacyclops cockingiINDiacyclops humphreysi humphreysiINDiacyclops sobeprolatusINearthworm sp.INEuasteron sp.1INfly sp.IN	IVERT IVERT IVERT	Animalia
Diacyclops humphreysi IN Diacyclops sobeprolatus IN earthworm sp. IN Euasteron sp.1 IN fly sp. IN	IVERT IVERT	
Diacyclops sobeprolatus  earthworm sp.  Euasteron sp.1  fly sp.  IN	NVERT NVERT	
earthworm sp. IN  Euasteron sp.1 IN  fly sp. IN	NVERT	Animalia
Euasteron sp. 1 IN		Animalia
fly sp.	IV/CDT	Animalia
	NVERT	Animalia
	NVERT	Animalia
Gangus sp. 2	NVERT	Animalia
Gnathaphanus aridus IN	NVERT	Animalia
Gomphodella cf. sp. 5 (PSS)	NVERT	Animalia
Gomphodella sp. 5 (PSS)	NVERT	Animalia
Grymeus sp.7	NVERT	Animalia
Halacaridae sp. 1 (PSS)	NVERT	Animalia
Halacaridae sp. S3 (PSS)	NVERT	Animalia
Heteropoda hermitis	NVERT	Animalia
Indolpium sp. B08 (=Phoenix sp. 1)	NVERT	Animalia
Iridomyrmex chasei concolor Forel	NVERT	Animalia
Iridomyrmex hartmeyeri Forel	NVERT	Animalia
Iridomyrmex hartmeyeri gp sp. JDM 327	NVERT	Animalia
Iridomyrmex sp. JDM 843	NVERT	Animalia
Karaops martamarta IN	NVERT	Animalia
'Leicacandona' 'carinata' (PSS)	NVERT	Animalia
Lychas annulatus IN	NVERT	Animalia
Lychas bituberculatus IN	NVERT	Animalia
Lychas 'bituberculatus' ms	NVERT	Animalia
Lychas 'hairy tail group'	NVERT	Animalia
Lychas mjobergi IN	NVERT	Animalia
Lychas sp. IN	NVERT	Animalia
Lychas sp. 2	NVERT	Animalia
Melitidae sp. 1 (PSS)	NVERT	Animalia
Melophorus sp. JDM 176	NVERT	Animalia
Melophorus turneri Forel	NVERT	Animalia
Meranoplus cf. dimidiatus F. Smith	NVERT	 Animalia
Mesocyclops brooksi IN	NVERT	 Animalia
Mesocyclops sp. IN	NVERT	Animalia
Metistete sp1 IN	NVERT	Animalia
Microcyclops varicans IN	NVERT	Animalia
Monomorium disetigerum Heterick IN	NVERT	Animalia
Monomorium laeve Mayr	NVERT	Animalia

TAXON	CLASS	CONS	KINGDOM
Monomorium rothsteini Forel	INVERT		Animalia
Myrmopopaea sp.18	INVERT		Animalia
Nedsia nr hurlberti	INVERT		Animalia
Nedsia nr sp. 24 (PSS)	INVERT		Animalia
Nedsia sp.	INVERT		Animalia
Nedsia sp. 24 (PSS)	INVERT		Animalia
Nematoda sp. 10 (PSS)	INVERT		Animalia
Nocticola sp.	INVERT		Animalia
Onthophagus consentaneus	INVERT		Animalia
Opopaea sp.17	INVERT		Animalia
Opopaea sp.4	INVERT		Animalia
Oribatida group 1 (PSS)	INVERT		Animalia
Origocandona inanitas	INVERT		Animalia
Ostracoda (unident.)	INVERT		Animalia
Paramelitidae sp.	INVERT		Animalia
Paramelitidae sp. 2 (PSS)	INVERT		Animalia
Parastenocarididae sp.	INVERT		Animalia
Parastenocaris jane	INVERT		Animalia
Phorticosomus gularis	INVERT		Animalia
Phreodrilid with dissimilar ventral chaetae	INVERT		Animalia
Phreodrilid with similar ventral chaetae	INVERT		Animalia
Phreodrilidae sp.	INVERT		Animalia
Pilbaracandona 'sp. 3' (PSS)	INVERT		Animalia
Pilbaracandona 'sp. 4' (PSS)	INVERT		Animalia
Pilbarus millsi	INVERT		Animalia
Planorbidae sp.	INVERT		Animalia
planthopper sp.	INVERT		Animalia
Pristina longiseta	INVERT		Animalia
Pygolabis paraburdoo	INVERT		Animalia
Pygolabis sp.	INVERT		Animalia
Recifella sp P1 (nr umala) (PSW)	INVERT		Animalia
Rhagada 'small banded'	INVERT		Animalia
Rockleanitocrella' sp. 1 (PSS)	INVERT		Animalia
Rotifera sp.	INVERT		Animalia
Schizopera roberiverensis	INVERT		Animalia
spider sp.	INVERT		Animalia
springtail sp.	INVERT		Animalia
Tetramorium striolatum Viehmeyer	INVERT		Animalia
Thereuopoda lesueurii	INVERT		Animalia
Tiramideopsis lictus	INVERT		Animalia
Tiramideopsis sp.	INVERT		Animalia
Trichocyclus warianga	INVERT		Animalia
Trombidioidea sp. C (PSS)	INVERT		Animalia
white ant sp.	INVERT		Animalia

TAXON	CLASS COM	NS KINGDOM
Collema coccophorum	LICHEN	Fungi
Xanthoparmelia reptans	LICHEN	Fungi
Austronomus australis	MAMMAL	
Bos taurus	MAMMAL	
Canis dingo	MAMMAL	
Canis lupus	MAMMAL	
Chaerephon jobensis	MAMMAL	
Chalinolobus gouldii	MAMMAL	
Dasyurus hallucatus	MAMMAL	EN
Felis catus	MAMMAL	Animalia
Macroderma gigas	MAMMAL	VU
Macropus rufus	MAMMAL	Animalia
Mus musculus	MAMMAL	
Ningaui timealeyi	MAMMAL	
Nyctophilus geoffroyi	MAMMAL	
Osphranter robustus	MAMMAL	
Osphranter robustus erubescens	MAMMAL	
Osphranter rufus	MAMMAL	
Ozimops lumsdenae	MAMMAL	
Petrogale rothschildi	MAMMAL	
Planigale ingrami	MAMMAL	
Planigale species 1'	MAMMAL	
Pseudantechinus woolleyae	MAMMAL	
Pseudomys chapmani	MAMMAL	P4
Pseudomys desertor	MAMMAL	Animalia
Pseudomys hermannsburgensis	MAMMAL	
Pseudomys hermansbergensis	MAMMAL	
Rhinonicteris aurantia	MAMMAL	P4
Rhinonicteris aurantia (Pilbara)	MAMMAL VU	Animalia
Rhinonicteris aurantius	MAMMAL	Animalia
Saccolaimus flaviventris	MAMMAL	
Scotorepens greyii	MAMMAL	
Sminthopsis longicaudata	MAMMAL	P4
Sminthopsis macroura	MAMMAL	Animalia
Taphozous georgianus	MAMMAL	
Taphozous hilli	MAMMAL	
Vespadelus finlaysoni	MAMMAL	
Zyzomys argurus	MAMMAL	
Amphipogon sericeus	MONOCOT	
Aristida burbidgeae	MONOCOT	
Aristida contorta	MONOCOT	
Asphodelus fistulosus	MONOCOT	
Astrebla pectinata	MONOCOT	
Brachyachne prostrata	MONOCOT	

TAXON	CLASS	CONS	KINGDOM
Cenchrus ciliaris	MONOCOT		
Chloris virgata	MONOCOT		
Cymbopogon ambiguus	MONOCOT		
Cynodon prostratus	MONOCOT		
Cyperus bifax	MONOCOT		
Cyperus cunninghamii	MONOCOT		
Cyperus involucratus	MONOCOT		
Cyperus vaginatus	MONOCOT		
Digitaria ciliaris	MONOCOT		
Diplachne fusca subsp. fusca	MONOCOT		
Enneapogon caerulescens	MONOCOT		
Enneapogon lindleyanus	MONOCOT		
Enneapogon pallidus	MONOCOT		
Enneapogon polyphyllus	MONOCOT		
Fragrostis dielsii	MONOCOT		
Fragrostis eriopoda	MONOCOT		
Fragrostis setifolia	MONOCOT		
Fragrostis sp.	MONOCOT		
Friachne aristidea	MONOCOT		
Friachne mucronata	MONOCOT		
Friachne pulchella	MONOCOT		
Friachne tenuiculmis	MONOCOT		
seilema dolichotrichum	MONOCOT		
seilema vaginiflorum	MONOCOT		
Panicum decompositum	MONOCOT		
Paraneurachne muelleri	MONOCOT		
Paspalidium basicladum	MONOCOT		
Paspalidium clementii	MONOCOT		
Paspalidium constrictum	MONOCOT		
Potamogeton tepperi	MONOCOT		
Schoenoplectus subulatus	MONOCOT		
Sporobolus australasicus	MONOCOT		
Themeda sp.	MONOCOT		
Themeda sp. Hamersley Station (M.E. Trudgen 11431)	MONOCOT		P3
Themeda triandra	MONOCOT		
riodia brizoides	MONOCOT		
riodia epactia	MONOCOT		
riraphis mollis	MONOCOT		
Typha domingensis	MONOCOT		
Amphibolurus longirostris	REPTILE		
Anilios grypus	REPTILE		Animalia
Antaresia perthensis	REPTILE		
Antaresia stimsoni	REPTILE		
Brachyurophis approximans	REPTILE		

Cyptoblephanus ustulutus Ctenophorus caudicinctus Ctenophorus caudicinctus Ctenophorus caudicinctus Ctenophorus caudicinctus Ctenophorus reducinctus Ctenotus duncola Ctenotus curiocia Ctenotus perincia Ctenotus partherinus subsp. ocelifier Ctenotus partherinus subsp. ocelifier Ctenotus partherinus subsp. ocelifier Ctenotus savatilis REPTILE Animalia Ctenotus savateliis REPTILE Ctenotus seventyi REPTILE Animalia Ctenotus seventyi REPTILE Animalia Ctenotus uber subsp. uber REPTILE Animalia Delma nasuta REPTILE Animalia Delma pax REPTILE Animalia Delma pax REPTILE Animalia Delma pax REPTILE Animalia Delma nasuta REPTILE Animalia Delma nasuta REPTILE Animalia REPTILE Animalia Delma nasuta REPTILE Animalia REPTILE Animalia REPTILE Animalia Cehyra purpurascens REPTILE Animalia REPTILE Animalia Cehyra purpurascens REPTILE Animalia Cehyra purpurascens REPTILE Animalia Cehyra purpurascens REPTILE Animalia Centas to piese REPTILE Animalia Centas to pie	TAXON	CLASS	CONS	KINGDOM
Ctenophorus caudicinctus subsp. caudicinctus Ctenophorus nuchalis Ctenophorus reticulatus Ctenophorus reticulatus Ctenophorus reticulatus Ctenotus duricola REPTILE Animalia Ctenotus duricola REPTILE Animalia Ctenotus pentherinus subsp. oceliifer REPTILE Animalia Ctenotus pentherinus subsp. oceliifer REPTILE Animalia Ctenotus subsp. oceliifer REPTILE Animalia Ctenotus subsp. oceliifer REPTILE Animalia Ctenotus serventyi REPTILE Animalia Ctenotus serventyi REPTILE Animalia Ctenotus serventyi REPTILE Animalia Ctenotus uber subsp. uber REPTILE Animalia Delma elegans REPTILE Animalia Delma esua REPTILE Animalia Delma pax REPTILE Animalia Delma pax REPTILE Animalia Reptil	Cryptoblepharus ustulatus	REPTILE		
Ctenophorus nuchalis Ctenophorus reticulatus Ctenotus duricola REPTILE Animalia Ctenotus duricola REPTILE Animalia Ctenotus helenae REPTILE Animalia Ctenotus pantherinus subsp. oceliifer REPTILE Ctenotus rubicundus REPTILE Animalia Ctenotus rubicundus REPTILE Animalia Ctenotus saxatilis REPTILE Animalia Ctenotus saxatilis REPTILE Animalia Ctenotus saverentyi REPTILE Animalia Ctenotus suber subsp. uber REPTILE Animalia Ctenotus uber subsp. uber REPTILE Animalia Ctenotus uber subsp. uber REPTILE Animalia Ctenotus uber subsp. uber REPTILE Animalia Delma nasuta REPTILE Animalia Delma nasuta REPTILE Animalia Delma pax REPTILE Animalia Delma pax REPTILE Animalia Delma pax REPTILE Animalia Celma pax REPTILE Animalia Celma pax REPTILE Animalia Celma pax REPTILE Animalia Celma purpurascens REPTILE Animalia REPTILE Animalia Celnyra purpurascens REPTILE Animalia REPTILE Animalia Celnyra variegata REPTILE Animalia Heteronotia binoei REPTILE Animalia Heteronotia binoei REPTILE Animalia Lerista clara REPTILE Animalia Lerista coffei REPTILE Animalia Lerista vifei REPTILE Animalia Menetia surda REPTILE Animalia REPTILE Animalia Menetia surda REPTILE Animalia Animalia REPTILE	Ctenophorus caudicinctus	REPTILE		
Ctenophorus reticulatus         REPTILE         Animalia           Ctenotus duricola         REPTILE         Animalia           Ctenotus helenae         REPTILE         Animalia           Ctenotus pantherinus subsp. ocelifer         REPTILE         Animalia           Ctenotus ubicundus         REPTILE         Animalia           Ctenotus saviatilis         REPTILE         Animalia           Ctenotus seventyl         REPTILE         Animalia           Ctenotus uber subsp. uber         REPTILE         Animalia           Ctenotus uber subsp. uber         REPTILE         Animalia           Ctenotus uber subsp. uber         REPTILE         Animalia           Celoran elegans         REPTILE         Animalia           Delma nesus         REPTILE         Animalia           Delma nesus         REPTILE         Animalia           Delma pax         REPTILE         Animalia           Delma pax         REPTILE         Animalia           Diplodactylus savagei         REPTILE         Animalia           Furna omata         REPTILE         Animalia           Gehyra punctata         REPTILE         Animalia           Gehyra punctata         REPTILE         Animalia           Heteronotia b	Ctenophorus caudicinctus subsp. caudicinctus	REPTILE		
Clenotus duricola         REPTILE         Animalia           Clenotus helenae         REPTILE         Animalia           Clenotus pentherinus subsp. oceilifer         REPTILE         Animalia           Clenotus pentherinus subsp. oceilifer         REPTILE         Animalia           Clenotus sexentiyi         REPTILE         Animalia           Clenotus sexentiyi         REPTILE         Animalia           Clenotus uber subsp. uber         REPTILE         Animalia           Delma elegans         REPTILE         Animalia           Delma pax         REPTILE         Animalia           Fuenta purpurascens         REPTILE         Animalia </td <td>Ctenophorus nuchalis</td> <td>REPTILE</td> <td></td> <td></td>	Ctenophorus nuchalis	REPTILE		
Ctenotus helenae         REPTILE         Animalia           Ctenotus pantherinus subsp. ocellifer         REPTILE         Animalia           Ctenotus rubicundus         REPTILE         Animalia           Ctenotus saxatilis         REPTILE         Animalia           Ctenotus seventyi         REPTILE         Animalia           Ctenotus uber subsp. uber         REPTILE         Animalia           Ctenotus uber subsp. uber         REPTILE         Animalia           Cyciodomorphus melanops subsp. elongatus         REPTILE         Animalia           Delma elegans         REPTILE         Animalia           Gebyra purpurascens         REPTILE         Animalia           Gebyr	Ctenophorus reticulatus	REPTILE		Animalia
Ctenotus pantherinus subsp. oceliifer         REPTILE         Animalia           Ctenotus rubicundus         REPTILE         Animalia           Ctenotus sexvatilis         REPTILE         Animalia           Ctenotus sexvatilis         REPTILE         Animalia           Ctenotus sexvatilis         REPTILE         Animalia           Ctenotus uber subsp. uber         REPTILE         Animalia           Cyclodomorphus melanops subsp. elongatus         REPTILE         Animalia           Delma elegans         REPTILE         Animalia           Delma nesuta         REPTILE         Animalia           Delma pex         REPTILE         Animalia           Delma pex purpurascens         REPTILE	Ctenotus duricola	REPTILE		Animalia
Ctenotus rubicundus         REPTILE         Animalia           Ctenotus savatilis         REPTILE         Animalia           Ctenotus serventyi         REPTILE         Animalia           Ctenotus serventyi         REPTILE         Animalia           Ctenotus uber subsp. uber         REPTILE         Animalia           Cyclodomorphus melanops subsp. elongatus         REPTILE         Animalia           Delma elegans         REPTILE         Animalia           Delma nasuta         REPTILE         Animalia           Delma pax         REPTILE         Animalia           Demansia rufescens         REPTILE         Animalia           Dipiodactylus savagei         REPTILE         Animalia           Furina omata         REPTILE         Animalia           Gehyra punctata         REPTILE         Animalia           Gehyra purpurascens         REPTILE         Animalia           Gehyra variegata         REPTILE         Animalia           Heteronotia binoei         REPTILE         Animalia           Heteronotia spelea         REPTILE         Animalia           Lerista albipes         REPTILE         Animalia           Lerista clara         REPTILE         Animalia           Lerista rolfei	Ctenotus helenae	REPTILE		Animalia
Ctenotus savatilis         REPTILE         Animalia           Ctenotus serventyi         REPTILE         Animalia           Ctenotus uber subsp, uber         REPTILE         Animalia           Cyclodomorphus melanops subsp, elongatus         REPTILE         Animalia           Delma elegans         REPTILE         Animalia           Delma nasuta         REPTILE         Animalia           Delma pax         REPTILE         Animalia           Demansia rufescens         REPTILE         Animalia           Demansia rufescens         REPTILE         Animalia           Diplodactylus savagei         REPTILE         Animalia           Furina ornata         REPTILE         Animalia           Gehyra purpurcata         REPTILE         Animalia           Gehyra purpurascens         REPTILE         Animalia           Gehyra variegata         REPTILE         Animalia           Heteronotia binoei         REPTILE         Animalia           Heteronotia spelea         REPTILE         Animalia           Lerista pipes         REPTILE         Animalia           Lerista flammicauda         REPTILE         Animalia           Lerista rolfei         REPTILE         Animalia           Lerista rolf	Ctenotus pantherinus subsp. ocellifer	REPTILE		Animalia
Ctenotus serventyi         REPTILE         Animalia           Ctenotus uber subsp. uber         REPTILE         Animalia           Cyclodomorphus melanops subsp. elongatus         REPTILE         Animalia           Delma elegans         REPTILE         Animalia           Delma nasuta         REPTILE         Animalia           Delma pax         REPTILE         Animalia           Demansia rufescens         REPTILE         Animalia           Diploadactylus savagei         REPTILE         Animalia           Furina ornata         REPTILE         Animalia           Gehyra purpurascens         REPTILE         Animalia           Gehyra purpurascens         REPTILE         Animalia           Gehyra variegata         REPTILE         Animalia           Heteronotia binoel         REPTILE         Animalia           Heteronotia spelea         REPTILE         Animalia           Lerista bipes         REPTILE         Animalia           Lerista bipes         REPTILE         Animalia           Lerista flammicauda         REPTILE         Animalia           Lerista rolfei         REPTILE         Animalia           Lerista rolfei         REPTILE         Animalia           Lerista rolfei <td>Ctenotus rubicundus</td> <td>REPTILE</td> <td></td> <td>Animalia</td>	Ctenotus rubicundus	REPTILE		Animalia
Ctenotus uber subsp. uber REPTILE Animalia Cyclodomorphus melanops subsp. elongatus REPTILE Animalia Delma elegans REPTILE Animalia Delma nasuta REPTILE Animalia Delma nasuta REPTILE Animalia Delma piar ufescens REPTILE Animalia Dipiodactylus savagei REPTILE Animalia Furina ornata REPTILE Animalia Gehyra punctata REPTILE Animalia Gehyra purpurascens REPTILE Animalia Gehyra variegata REPTILE Animalia Heteronotia binoei REPTILE Animalia Lerista bipes REPTILE Animalia Lerista clara REPTILE Animalia Lerista clara REPTILE Animalia Lerista clara REPTILE Animalia Lerista neander REPTILE Animalia Lerista reander REPTILE Animalia Lerista verhmens REPTILE Animalia Liais burtonis REPTILE Animalia Liais burtonis REPTILE Animalia Liais purtonis REPTILE Animalia Menetia surda subsp. surda REPTILE Animalia Menetia surda subsp. surda REPTILE Animalia Menetia surda subsp. surda REPTILE Animalia Menetia ruficauda subsp. exquisita REPTILE Animalia Nephrurus wheeleri subsp. cinctus REPTILE Animalia	Ctenotus saxatilis	REPTILE		Animalia
Cyclodomorphus melanops subsp. elongatus         REPTILE         Animalia           Delma elegans         REPTILE         Animalia           Delma nasuta         REPTILE         Animalia           Delma pax         REPTILE         Animalia           Demansia rufescens         REPTILE         Animalia           Diplodactylus savagei         REPTILE         Animalia           Furina ormata         REPTILE         Animalia           Gehyra punctata         REPTILE         Animalia           Gehyra purpurascens         REPTILE         Animalia           Gehyra variegata         REPTILE         Animalia           Heteronotia binoei         REPTILE         Animalia           Heteronotia spelea         REPTILE         Animalia           Lerista bipes         REPTILE         Animalia           Lerista bipes         REPTILE         Animalia           Lerista lammicauda         REPTILE         Animalia           Lerista rolfei         REPTILE         Animalia           Lerista rolfei         REPTILE         Animalia           Lerista verhmens         REPTILE         Animalia           Lerista verhmens         REPTILE         Animalia           Lucasium stenodactylum	Ctenotus serventyi	REPTILE		Animalia
Delma elegans REPTILE Animalia Delma nasuta REPTILE Animalia Delma pax REPTILE Animalia Demansia rufescens REPTILE Animalia Diplodactylus savagei REPTILE Animalia Diplodactylus savagei REPTILE Animalia Gehyra punctata REPTILE Gehyra purctata REPTILE Animalia Gehyra purpurascens REPTILE Animalia Gehyra purpurascens REPTILE Animalia Gehyra purpurascens REPTILE Animalia Heteronotia binoei REPTILE Animalia Heteronotia spelea REPTILE Animalia Lerista bipes REPTILE Animalia Lerista clara REPTILE Animalia Lerista clara REPTILE Animalia Lerista reander REPTILE Animalia Lerista roffei REPTILE Animalia Lerista verhmens REPTILE Lanimalia Lerista verhmens REPTILE Animalia Lialis burtonis REPTILE Animalia Lucasium stenodactylum REPTILE Animalia Lucasium stenodactylum REPTILE Animalia Menetia greyii REPTILE Animalia Menetia surda Menetia surda Meretia ruficauda REPTILE Animalia Menetia ruficauda REPTILE Animalia Morethia ruficauda Subsp. surda REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Nephrurus wheeleri REPTILE Animalia	Ctenotus uber subsp. uber	REPTILE		Animalia
Delma nasuta Delma pax REPTILE Animalia Delma pax REPTILE Animalia Demansia rufescens REPTILE Animalia Diplodactylus savagei REPTILE Animalia Furina ornata REPTILE Animalia Gehyra punctata REPTILE Animalia Gehyra purpurascens REPTILE Animalia Gehyra variegata REPTILE Animalia Heteronotia binoei REPTILE Animalia Heteronotia spelea REPTILE Animalia Lerista bipes REPTILE Animalia Lerista clara REPTILE Animalia Lerista reander REPTILE Animalia Lerista roffei REPTILE Animalia Lerista roffei REPTILE Animalia Lerista verhmens REPTILE Liais burtonis REPTILE Animalia Menetia surda REPTILE Animalia Menetia surda REPTILE Animalia Menetia surda REPTILE Animalia Menetia surda REPTILE Animalia Menetia ruficauda Morethia ruficauda REPTILE Animalia Nephrurus levis subsp. pilbarensis REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Nephrurus wheeleri subsp. cinctus REPTILE Animalia	Cyclodomorphus melanops subsp. elongatus	REPTILE		Animalia
Delma pax         REPTILE         Animalia           Demansia rufescens         REPTILE         Animalia           Diplodactylus savagei         REPTILE         Animalia           Furina ornata         REPTILE         Animalia           Gehyra punctata         REPTILE         Animalia           Gehyra purpurascens         REPTILE         Animalia           Gehyra variegata         REPTILE         Animalia           Heteronotia binoei         REPTILE         Animalia           Heteronotia spelea         REPTILE         Animalia           Lerista bipes         REPTILE         Animalia           Lerista bipes         REPTILE         Animalia           Lerista clara         REPTILE         Animalia           Lerista flammicauda         REPTILE         Animalia           Lerista neander         REPTILE         Animalia           Lerista rolfei         REPTILE         Animalia           Lerista verhmens         REPTILE         Animalia           Lialis burtonis         REPTILE         Animalia           Liasis olivaceus subsp. barroni         REPTILE         VU         Animalia           Lucasium wombeyi         REPTILE         Animalia           Menetia surda	Delma elegans	REPTILE		Animalia
Demansia rufescens       REPTILE       Animalia         Diplodactylus savagei       REPTILE       Animalia         Furina ornata       REPTILE       Animalia         Gehyra punctata       REPTILE       Animalia         Gehyra purpurascens       REPTILE       Animalia         Gehyra variegata       REPTILE       Animalia         Heteronotia binoei       REPTILE       Animalia         Heteronotia spelea       REPTILE       Animalia         Lerista bipes       REPTILE       Animalia         Lerista clara       REPTILE       Animalia         Lerista clara       REPTILE       Animalia         Lerista fiammicauda       REPTILE       Animalia         Lerista neander       REPTILE       Animalia         Lerista rolfei       REPTILE       Animalia         Lerista verhmens       REPTILE       Animalia         Lialis burtonis       REPTILE       Animalia         Lialis burtonis       REPTILE       Animalia         Lucasium stenodactylum       REPTILE       VU       Animalia         Lucasium wombeyi       REPTILE       Animalia         Menetia surda       REPTILE       Animalia         Menetia surda       REPTIL	Delma nasuta	REPTILE		Animalia
Diplodactylus savagei REPTILE Animalia Furina ornata REPTILE Animalia Gehyra punctata REPTILE Animalia Gehyra purpurascens REPTILE Animalia Gehyra variegata REPTILE Animalia Heteronotia binoei REPTILE Animalia Heteronotia spelea REPTILE Animalia Lerista bipes REPTILE Animalia Lerista clara REPTILE Animalia Lerista flammicauda REPTILE Animalia Lerista flammicauda REPTILE Animalia Lerista neander REPTILE Animalia Lerista rolfei REPTILE Animalia Lerista verhmens REPTILE Animalia Lialis burtonis REPTILE Animalia Lialis burtonis REPTILE Animalia Lucasium stenodactylum REPTILE Animalia Lucasium stenodactylum REPTILE Animalia Lucasium wombeyi REPTILE Animalia Menetia greyii REPTILE Animalia Menetia surda subsp. surda REPTILE Animalia Morethia ruficauda Morethia ruficauda REPTILE Animalia Nephrurus levis subsp. pilbarensis REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Neptrurus wheeleri REPTILE Animalia	Delma pax	REPTILE		Animalia
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Gehyra punctata       REPTILE       Animalia         Gehyra purpurascens       REPTILE       Animalia         Gehyra variegata       REPTILE       Animalia         Heteronotia binoei       REPTILE       Animalia         Heteronotia spelea       REPTILE       Animalia         Lerista bipes       REPTILE       Animalia         Lerista clara       REPTILE       Animalia         Lerista flammicauda       REPTILE       Animalia         Lerista neander       REPTILE       Animalia         Lerista rolfei       REPTILE       Animalia         Lerista verhmens       REPTILE       Animalia         Lialis burtonis       REPTILE       Animalia         Liasis olivaceus subsp. barroni       REPTILE       Animalia         Lucasium stenodactylum       REPTILE       VU       Animalia         Lucasium wombeyi       REPTILE       Animalia         Menetia greyii       REPTILE       Animalia         Menetia surda       REPTILE       Animalia         Menetia surda subsp. surda       REPTILE       Animalia         Morethia ruficauda       REPTILE       Animalia         Morethia ruficauda subsp. exquisita       REPTILE       Animalia	Diplodactylus savagei	REPTILE		Animalia
Gehyra purpurascens       REPTILE       Animalia         Gehyra variegata       REPTILE       Animalia         Heteronotia binoei       REPTILE       Animalia         Heteronotia spelea       REPTILE       Animalia         Lerista bipes       REPTILE       Animalia         Lerista clara       REPTILE       Animalia         Lerista flammicauda       REPTILE       Animalia         Lerista neander       REPTILE       Animalia         Lerista rolfei       REPTILE       Animalia         Lerista verhmens       REPTILE       Animalia         Lialis burtonis       REPTILE       Animalia         Liasis olivaceus subsp. barroni       REPTILE       Animalia         Lucasium stenodactylum       REPTILE       VU       Animalia         Lucasium wombeyi       REPTILE       Animalia         Menetia greyii       REPTILE       Animalia         Menetia surda       REPTILE       Animalia         Menetia surda subsp. surda       REPTILE       Animalia         Morethia ruficauda       REPTILE       Animalia         Morethia ruficauda subsp. exquisita       REPTILE       Animalia         Nephrurus levis subsp. pilbarensis       REPTILE       Animalia	Furina ornata	REPTILE		Animalia
Gehyra variegata       REPTILE       Animalia         Heteronotia binoei       REPTILE       Animalia         Heteronotia spelea       REPTILE       Animalia         Lerista bipes       REPTILE       Animalia         Lerista clara       REPTILE       Animalia         Lerista clara       REPTILE       Animalia         Lerista flammicauda       REPTILE       Animalia         Lerista reander       REPTILE       Animalia         Lerista rolfei       REPTILE       Animalia         Lerista verhmens       REPTILE       Animalia         Lialis burtonis       REPTILE       Animalia         Liasis olivaceus subsp. barroni       REPTILE       VU       Animalia         Lucasium stenodactylum       REPTILE       Animalia         Lucasium stenodactylum       REPTILE       Animalia         Menetia greyii       REPTILE       Animalia         Menetia surda       REPTILE       Animalia         Menetia surda subsp. surda       REPTILE       Animalia         Morethia ruficauda       REPTILE       Animalia         Morethia ruficauda subsp. exquisita       REPTILE       Animalia         Nephrurus levis subsp. pilbarensis       REPTILE       Animalia	Gehyra punctata	REPTILE		Animalia
Heteronotia binoei REPTILE Animalia Heteronotia spelea REPTILE Animalia Lerista bipes REPTILE Animalia Lerista clara REPTILE Animalia Lerista flammicauda REPTILE Animalia Lerista neander REPTILE Animalia Lerista rolfei REPTILE Animalia Lerista verhmens REPTILE Animalia Lialis burtonis REPTILE Animalia Liasis olivaceus subsp. barroni REPTILE VU Animalia Lucasium stenodactylum REPTILE Animalia Lucasium wombeyi REPTILE Animalia Menetia greyii REPTILE Animalia Menetia surda subsp. surda REPTILE Animalia Menetia surda REPTILE Animalia Menetia ruficauda REPTILE Animalia Morethia ruficauda subsp. exquisita REPTILE Animalia Morethia ruficauda subsp. exquisita REPTILE Animalia Nephrurus levis subsp. pilbarensis REPTILE Animalia Nephrurus levis subsp. pilbarensis REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Nephrurus wheeleri subsp. cinctus REPTILE Animalia	Gehyra purpurascens	REPTILE		Animalia
Heteronotia spelea REPTILE Animalia Lerista bipes REPTILE Animalia Lerista clara REPTILE Animalia Lerista clara REPTILE Animalia Lerista flammicauda REPTILE Animalia Lerista neander REPTILE Animalia Lerista rolfei REPTILE Animalia Lerista verhmens REPTILE Animalia Lialis burtonis REPTILE Animalia Liasis olivaceus subsp. barroni REPTILE Animalia Lucasium stenodactylum REPTILE Animalia Lucasium wombeyi REPTILE Animalia Lucasium wombeyi REPTILE Animalia Menetia greyii REPTILE Animalia Menetia surda REPTILE Animalia Menetia surda Subsp. surda REPTILE Animalia Morethia ruficauda REPTILE Animalia Morethia ruficauda REPTILE Animalia Morethia ruficauda subsp. exquisita REPTILE Animalia Nephrurus levis subsp. pilbarensis REPTILE Animalia Nephrurus wheeleri REPTILE Animalia Nephrurus wheeleri subsp. cinctus REPTILE Animalia Netotoscincus ornatus subsp. ornatus	Gehyra variegata	REPTILE		Animalia
Lerista bipesREPTILEAnimaliaLerista claraREPTILEAnimaliaLerista flammicaudaREPTILEAnimaliaLerista neanderREPTILEAnimaliaLerista rolfeiREPTILEAnimaliaLerista verhmensREPTILEAnimaliaLialis burtonisREPTILEAnimaliaLiasis olivaceus subsp. barroniREPTILEVUAnimaliaLucasium stenodactylumREPTILEAnimaliaLucasium wombeyiREPTILEAnimaliaMenetia greyiiREPTILEAnimaliaMenetia surdaREPTILEAnimaliaMorethia ruficaudaREPTILEAnimaliaMorethia ruficauda subsp. exquisitaREPTILEAnimaliaNephrurus levis subsp. pilbarensisREPTILEAnimaliaNephrurus wheeleriREPTILEAnimaliaNephrurus wheeleri subsp. cinctusREPTILEAnimaliaNotoscincus ornatus subsp. omatusREPTILEAnimalia	Heteronotia binoei	REPTILE		Animalia
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·	Nephrurus wheeleri subsp. cinctus	REPTILE		Animalia
Oedura fimbria REPTILE Animalia	·			
	Oedura fimbria	REPTILE		Animalia

TAXON	CLASS CONS	KINGDOM
Oedura marmorata	REPTILE	Animalia
Pseudechis australis	REPTILE	Animalia
Pseudonaja mengdeni	REPTILE	Animalia
Pseudonaja modesta	REPTILE	Animalia
Pseudonaja nuchalis	REPTILE	Animalia
Ramphotyphlops ammodytes	REPTILE	Animalia
Ramphotyphlops grypus	REPTILE	Animalia
Simoselaps bertholdi	REPTILE	Animalia
Suta fasciata	REPTILE	Animalia
Tympanocryptis cephala	REPTILE	Animalia
Varanus acanthurus	REPTILE	Animalia
Varanus caudolineatus	REPTILE	Animalia
Varanus giganteus	REPTILE	Animalia
Varanus tristis	REPTILE	Animalia
Varanus tristis tristis	REPTILE	Animalia
Vermicella snelli	REPTILE	Animalia

### Appendix 2: Results of PMST search

#### Appendix 3: Likelihood of occurrence criteria for flora and fauna species

Likelihood of occurrence criteria for flora and fauna species:

- Likelihood: Previously recorded
  - The species has previously been recorded within study area from DEC database search results and/or from previous surveys of the study area, and/or the species has been confirmed through a current vouchered specimen at WA Herbarium.
- Likelihood: Likely
  - The species has not previously been recorded from within the study area. However:
    - The species has been recorded in proximity (<10 km) to the study area and occurs in similar habitat to that which occurs within the study area.
    - Core habitat and suitable landforms for the species occurs within the study area
      either year-round or seasonally. In relation to fauna species, this could be that a
      host plant is seasonally present on site, or habitat features such as caves are
      present that may be used during particular times during its life cycle e.g. for
      breeding. In relation to both flora and fauna species, it may be there are seasonal
      wetlands present.
  - There is a medium to high probability that a species uses the study area.
- Likelihood: Potential
  - The species has not previously been recorded from within the study area. However:
    - Targeted surveys may locate the species based on records occurring in proximity to the study area (10-20 km) and suitable habitat occurring in the study area.
    - The study area has been assessed as having potentially suitable habitat through habitat modelling.
    - The species is known to be cryptic and may not have been detected despite extensive surveys.
    - The species is highly mobile and has an extensive foraging range so may not have been detected during previous surveys.
  - The species has been recorded in the study area by a previous consultant survey or there is historic evidence of species occurrence within the study area. However:
    - Doubt remains over taxonomic identification, or the majority of habitat does not appear suitable (although presence cannot be ruled out due to factors such as species ecology or distribution).
    - Coordinates are doubtful.
- Likelihood: Unlikely
  - The species has been recorded locally through DBCA database searches. However, it has not been recorded within the study area and:
    - It is unlikely to occur due to the site lacking critical habitat, having at best marginally suitable habitat, and/or being severely degraded.
    - It is unlikely to occur due to few historic record/s and no other current collections in the local area.

- The species has been recorded within the bioregion based on literature review but has not been recorded locally or within the study area through DBCA database searches.
- The species has not been recorded in the study area despite adequate survey efforts, such as a standardised methodology or targeted searching within potentially suitable habitat.

#### Appendix 4: Vegetation structural classification and condition rating scale

#### Vegetation structural classification^

Stratum	70 - 100%	30 – 70%	10 – 30%	2 – 10%	< 2%
Trees over 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 under 10 m	Low closed forest	Low open forest	Low woodland	Low open woodland	Scattered low trees
Shrubs over 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 under 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

<sup>^</sup>Based on Muir (1977) and Aplin's (1979) modification of the vegetation classification system of Specht (1970).

#### Vegetation condition scale rating for use on Pilbara surveys^

Rating	Description
Excellent	Pristine or nearly so; no obvious signs of damage caused by human activities since European settlement.
Very Good	Some relatively slight signs of damage caused by human activities since European settlement. For example, some signs of damage to tree trunks caused by repeated fire, the presence of some relatively non-aggressive weeds, or occasional vehicle tracks.
Good	More obvious signs of damage caused by human activities since European settlement, including some obvious impact on the vegetation structure such as that caused by low levels of grazing or slightly aggressive weeds.
Poor	Still retains basic vegetation structure or ability to regenerate it after very obvious impacts of activities of human activities since European settlement, such as grazing, partial clearing, frequent fires or aggressive weeds.
Degraded	Severely impacted by grazing, very frequent fires, clearing or a combination of these activities. Scope for some regeneration but not to a state approaching good condition without intensive management. Usually with a number of weed species present including very aggressive species.
Completely Degraded	Areas that are completely 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.

<sup>^</sup>Based on Trudgen (1998) as presented in EPA Technical Guidance (EPA 2016a).



#### Appendix 5: Field site - Relevé

SITE ID	EASTI NG	NORTHI NG	DATE	SITE TYPE	SITE DIMENSIONS	LANDFOR M	SOIL TYPE	TIME SINCE FIRE	VEG DESC. UPPER STRATUM	VEG DESC. MIDDLE STATUM	VEG DESC. LOWER STRATUM	VEG CONDITION	DISTURBANCE TYPES
PR01	569978	7435501	17/07/20 23	Relevé	50x50m	PLAIN	Loamy Clay	8-12 YRS	Acacia citrinoviridis tall shrubland	*Aerva jervanica, Eremophilla fraseri & Corchorus crozophorifolius open shrubland	*Cenchrus ciliaris and *Cenchrus setiger closed tussock grassland	Poor	Weeds, tracks, cattle, litter, previous clearing, infrastructure (powerlines and water bore)

# RioTinto

### Appendix 6: Field survey flora results

FAMILY	GENUS	SPECIES	INFRA INFRA RANK NAME	FULL NAME	COVER HEIGHT		
Amaranthaceae	Aerva	javanica		Aerva javanica	3	1	
Amaranthaceae	Ptilotus	obovatus		Ptilotus obovatus	0.1	0.8	
Caryophyllaceae	Polycarpaea	longiflora		Polycarpaea longiflora	0.1	0.2	
Chenopodiaceae	Enchylaena	tomentosa		Enchylaena tomentosa	0.1	0.4	
Chenopodiaceae	Maireana	sp.		Maireana sp.	0.1	0.3	
Chenopodiaceae	Salsola	australis		Salsola australis	0.1	0.2	
Fabaceae	Acacia	citrinoviridis		Acacia citrinoviridis	12	5.5	
Fabaceae	Acacia	tetragonophylla	1	Acacia tetragonophylla	0.1	1.6	
Fabaceae	Senna	artemisioides	subsp. <i>oligophylla</i>	a Senna artemisioides subsp. oligophylla	0.1	0.3	
Malvaceae	Corchorus	crozophorifolius	s	Corchorus crozophorifolius	1	1.2	
Nyctaginaceae	Boerhavia	coccinea		Boerhavia coccinea	0.1	0.1	
Poaceae	Cenchrus	ciliaris		Cenchrus cilaris	65	0.4	
Poaceae	Cenchrus	setiger		Cenchrus setiger	10	0.4	
Poaceae	Enneapogon	caerulescens		Enneapogon caerulescens	0.1	0.2	
Poaceae	Eriachne	pulchella	subsp. pulchella	Eriachne pulchella subsp. pulchella	0.1	0.2	
Poaceae	Eriachne	pulchella		Eriachne pulchella	0.1	0.1	
Scrophulariaceae	e Eremophila	fraseri	subsp. fraseri	Eremophila fraseri subsp. fraseri	1	3.5	
Violaceae	Afrohybanthu	s aurantiacus		Afrohybanthus aurantiacus	0.1	0.1	
Zygophyllaceae	Tribulus	suberosus		Tribulus suberosus	0.1	0.4	