

CPS 7914/3 AMENDMENT APPLICATION SUPPORTING DOCUMENT

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1. INTRODUCTION

The Cosmos Nickel Operation (Cosmos) is owned and operated by Australian Nickel Investments Pty Ltd (ANI), a fully owned subsidiary of Independence Group (IGO). Cosmos is located approximately 40km north of the Leinster township (Figure 1) and consists of the Cosmos open pit, underground operations (undergoing development), and supporting processing facilities which are undergoing construction.

Jubilee Mines NL operated Cosmos from October 1999 to 2007 developing the Cosmos open pit and UG operations. Xstrata (a subsidiary of Glencore) purchased the operations in 2007, continuing operations and then placed it on Care and Maintenance in February 2012 due to the exhaustion of the Prospero ore body. ANI purchased Cosmos in September 2015 with the aim to recommence mining operations. ANI has recommenced operations at Cosmos for nickel ore production from the Odysseus deposit following the Decision to Mine in April 2018 and the Definitive Feasibility Study confirming the 10-year operation in October 2018.

ANI were granted the current Clearing Purpose Permit CPS 7914/3 (the permit) in March 2018, for mineral production and associated activities. ANI is applying to redescribe the permit boundary area to clear a duplicated gas spur/pipeline corridor. No increase to clearing allocation (ha) is proposed. This document has been prepared for the Department of Mines, Industry Regulation and Safety (DMIRS) to support the CPS amendment application form (Form C4).



Figure 1: Location of Cosmos Nickel Operations



2. PROPOSAL

ANI is planning clearing activities to allow construction of a second gas supply pipeline (adjacent to existing) from the 'Cosmos Lateral section' of the 'Goldfields Gas Pipeline' to the 'Cosmos power plant'. The purpose of this project is to ensure sufficient gas supply to sustain increased energy requirements of continued ramp up to full production/processing and construction.

A detailed description of the proposed clearing and construction activities the subject of this amendment listed below and shown on Figure 2:

- The required disturbance footprint (including clearing) corridor to be ~40m wide;
- The pipe diameter will be DN150 (6 inch);
- The approx. length will be 12.7km (same as current gas pipeline);
- The gas delivery station will be located adjacent to the existing Cosmos power station;
- The existing power station footprint will require expansion to install additional gas fired generators; and
- The proposed pipeline will have a Max Allowable Operating Pressure of 10.2Mpa and as such will need to be designed in accordance with AS2885 and will be licensed under a Pipeline License that will be issued by DMIRS (Petroleum).

Both the proposed duplicated and existing gas pipeline will be located within a single services corridor located on tenements L36/189, M36/127, M36/180, M36/212, M36/371 and M36/659 with a total length of approximately 12.7 km. The gas supply transfer station and expanded power station will be located on M36/371.

Tenements M36/212 and L36/189 are outside the existing permit boundary. ANI is proposing an amendment to the permit to redescribe the boundary to include sections of M36/212 and L36/189 to allow for clearing to widen the existing gas pipeline corridor (Figure 2 and Figure 3). Approximately 35 ha of clearing will be required to widen the services corridor and install the second gas pipeline within the amended permit boundary.

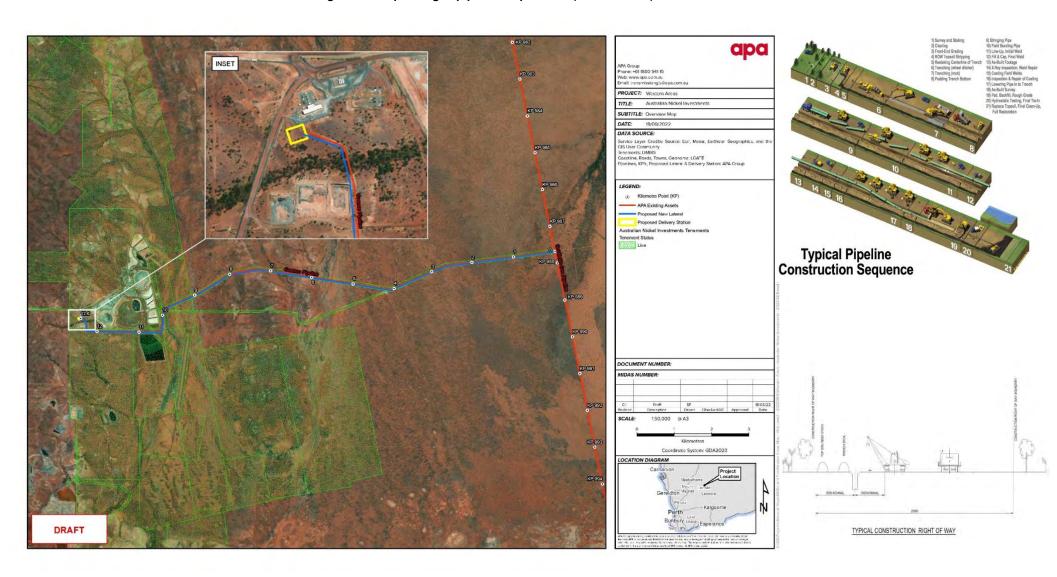
No changes to the overall approved clearing area allocation (180 ha) proposed in this amendment.

The total area of the amended permit is 1,402 Ha and covers leases L36/159, L36/189, M36/127, M36/180, M36/212, M36/349, M36/371, and M3/659. The permit allows for 180 Ha of native vegetation to be cleared within the permit boundary. The duration of the permit is from 3 March 2018 to 28 February 2027.

In November 2022, an amended Part 1 Mining Proposal amendment to REGID 92690 was submitted to include the gas pipeline duplication, addition of M36/212 in the development envelope and other key/miscellaneous activity additions. The revised mining proposal and closure plan (REGID 111609) is currently under assessment with DMIRS. The proposed clearing permit boundary is entirely within the development envelope provided in the latest submitted mining proposal (REGID 111609).



Figure 2 - Proposed gas pipeline duplication (APA and ANI)





ANI is the owner and holder of tenements L36/159, L36/189, M36/127, M36/180, M36/212, M36/349, M36/371, and M3/659. All tenements are owner-operated giving ANI a 100% holding, title deeds are presented in **Appendix A**.

The proposed amendment application is unlikely to have an impact on a matter of national environmental significance; hence this proposed clearing action is unlikely to require assessment in accordance with, or under, an EPBC Act Accredited Process such as the assessment bilateral agreement.

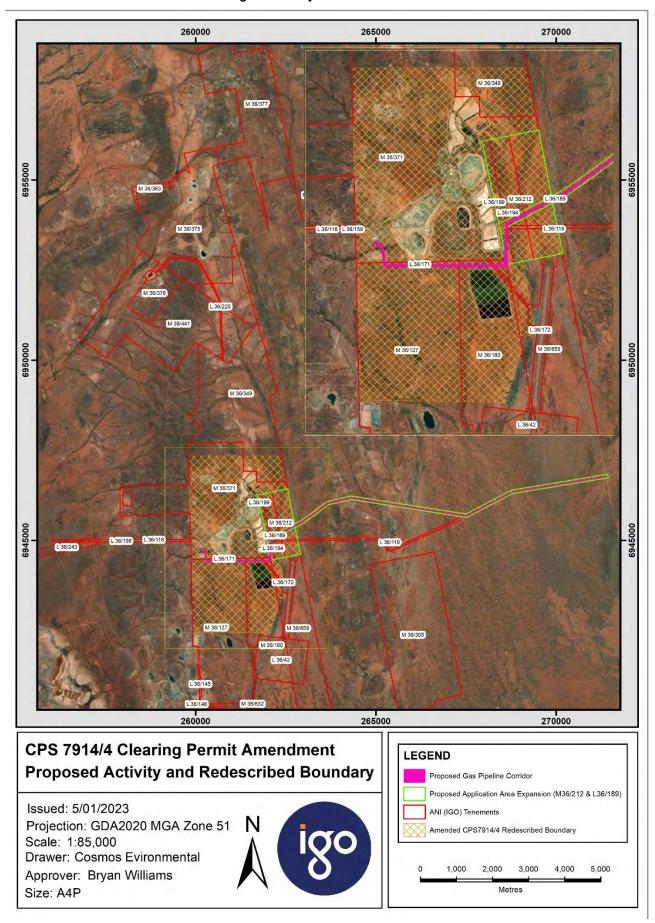
The location of the proposed application area is shown on Figure 3, the tenements on which clearing is to occur is provided in Table 1.

Table 1 - Tenement Overview

Tenement	Tenement Holder	Expiry Date
L36/159	AUSTRALIAN NICKEL INVESTMENTS PTY LTD	19/07/2043
L36/189	AUSTRALIAN NICKEL INVESTMENTS PTY LTD	15/08/2027
M36/127	AUSTRALIAN NICKEL INVESTMENTS PTY LTD	19/04/2031
M36/180	AUSTRALIAN NICKEL INVESTMENTS PTY LTD	03/07/2032
M36/212	AUSTRALIAN NICKEL INVESTMENTS PTY LTD	01/07/2033
M36/349	AUSTRALIAN NICKEL INVESTMENTS PTY LTD	03/03/2041
M36/371	AUSTRALIAN NICKEL INVESTMENTS PTY LTD	03/03/2041
M36/659	AUSTRALIAN NICKEL INVESTMENTS PTY LTD	22/02/2028



Figure 3 - Project Location





3. SITING AND EXISTING ENVIRONMENT

The siting and location of the permit area in relation to other sensitive land uses is provided as Figure 3. The closest human receptor is Yakabindie Pastoral Station (homestead), located approximately 2-5km northwest of Cosmos. The nearest regional town site is Leinster at 32 km south of the permit boundary.

3.1 Climate

Cosmos is located within the Murchison bioregion and experiences a semi-arid to arid climate, with hot, dry summers and cool, mild winters. The region is influenced by the winter rainfall patterns that affect the southwest of Western Australia as well as the variable summer rainfall typical of the northern regions. Summer rainfall activity is dependent upon thunderstorm activity and rain bearing depressions, often formed in the wake of tropical cyclones.

The long-term average annual rainfall for the Leinster Region is 240 mm. The nearest Bureau of Meteorology (BoM) weather station is located at Leinster (Leinster Aero Station Number 012314). The mean annual temperature is 28.2°C and the mean annual minimum temperature is 14.7°C. Daily maxima greater than 30°C are common between October and March. Dominant wind direction is easterly in the mornings increasing to northerlies in winter. The average wind speeds vary from 16.0 to 21.4 km/hr in the morning and 15.6 to 19.4 km/hr in the afternoon. Annual evaporation rates are between 3000 to 3200 mm, exceeding the annual rainfall (Bureau of Meteorology, 2019).

3.2 Field Surveys - Flora, Vegetation and Fauna

Ten vegetation surveys have been undertaken at the Project including historically Dames and Moore (1998) and Mattiske Consulting Pty Ltd (Mattiske) (2000 – 2009, 2011), and more recently PEK Enviro (2017) and Botanica Consulting (2018).

Five terrestrial fauna surveys have been completed at CNO since 1999:

- Hart, Simpson and Associates (1999). A Vertebrate Fauna Assessment of the Cosmos Nickel Project Area.
- Biota Environmental Sciences (2003). Bellevue Mine Airstrip Extension Rare Fauna Survey. Letter report to URS Australia, 5 July 2003.
- Biota Environmental Sciences (2004) Cosmos Nickel Mine Extension Fauna Survey.
- Ninox Wildlife Consulting (2005) Vertebrate Fauna Habitat Assessment of the Proposed Expansions to the Cosmos Nickel Mine, Near Leinster, Western Australia.
- PEK Enviro (2017). Cosmos Nickel Project. Level 1 Vegetation, Flora and Fauna Survey.

No declared rare (DRF) or conservation significant/priority flora/fauna species have been recorded within the existing or proposed clearing permit application area.

3.3 Desktop Studies and Literature Review

A number of vegetation and fauna assessments have been completed at CNO since the Project commenced and these were reviewed as part of the desktop assessment. In addition, several vegetation and fauna assessments have been completed regionally, in particular and more recently ~40km north for the BHP Billiton Mt Keith satellite Project. The records of flora or fauna of conservation significance and the habitat were reviewed to ascertain if similar habitat is present within the proposed amendment to the clearing permit area.



A flora and fauna desktop study (consolidating previous ecological field surveys) was undertaken by Clark Lindbeck & Associates in November 2022 (**Appendix B**). To date, 89 species, from 40 genera and 19 families have been recorded across the entire Cosmos tenement package. Of these, 59 species, 39 genera and 23 families have been recorded within the proposed application boundary expansion (gas pipeline corridor).

3.3.1 Conservation Significant Flora

A search of the EPBC PMST and DBCA Threatened flora database (50 km and 100 km buffer respectively) revealed 50 flora species of conservation significance. The results are attached in **Appendix B.**

Table 2 and Figure 4 present the 24 flora species of conservation significance recorded within 50 km of the Project and their preferred habitat and likelihood of occurrence within the proposed clearing permit application area.

Seringia exastia was listed in the DBCA results, but has recently had its Threatened status delisted (as of 30 September 2022), as such it is not included in Table 2.

Table 2 - DBCA threatened flora search results within 50km

Taxon	Cons. Rating	Preferred Habitat	Closest Records	Likelihood of Occurrence
Atriplex yeelirie*1	Т	Highly restricted population on Yeelirie Station within palaeovalley of Yilgarn valley (associated with near surface Uranium mineralisation).	Yeelirie Station; Albion Downs	Unlikely – no preferred habitat
Anacampseros sp. Eremaean (F. Hort, J. Hort & J. Shanks 3248)	1	Sand patches inside rocks, brown sandy clay, granite. Depressions in rock outcrops, breakaways, flats	Yakabindie Station	Unlikely – no preferred habitat or local records
Eremophila congesta	1	Lateritic outcrops in greenstone hills, stony quartzite slopes.	Mount Keith	Unlikely – no preferred habitat
Swainsona katjarra	1	Eucalyptus camaldulensis open woodland over mulga, Melaleuca sp. and Grevillea spinosa shrubland;	Yakabindie Station	Unlikely – no preferred habitat
Eremophila sp. long pedicels (G. Cockerton 1975)	2	Drainage line. Dark red loam. Dark red hardpan over palaeochannel; Mulga woodland	Mt Keith	Unlikely – no local records.
Hibbertia sp. Sherwood Breakaways (R.J. Cranfield 6771)	2	Weathered granite, coarse siliceous silty sand; Breakaways	Yakabindie Station (Mt Keith Satellite operation)	Unlikely – no preferred habitat
Austroparmelina macrospora	3	Red brown clayey sand, plain.	Wanjarri Nature Reserve	Possible – low (no local records)
Baeckea sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963)	3	Orange sand. Flats.	31 km W of Agnew	Unlikely – no preferred habitat
Bossiaea eremaea	3	Red sandplain; Deep red sand.	Wanjarri Nature Reserve	Unlikely – no preferred habitat
Goodenia modesta	3	Rangeland, Salt Lake, grey clay. Red loam, sand.	West side Lake Miranda; Yakabindie Station	Unlikely – no preferred habitat
Hybanthus floribundus subsp. chloroxanthus	3	Dark red-brown soil, never sandy, rich in iron oxide, laterite. Rocky areas, creek banks, along drainage lines.	Yakabindie Station.	Possible – low (no local records)



Taxon	Cons. Rating	Preferred Habitat	Closest Records	Likelihood of Occurrence
Lysiandra baeckeoides	3	Ironstone slope.	Leinster Downs Station - >25 km south of CNO	Unlikely – no preferred habitat or local records
Olearia mucronata	3	Schistose hills, along drainage channels.	Waterfall gully	Unlikely – no preferred habitat
Sauropus sp. Woolgorong (M. Officer s.n. 10/8/94)	3	Red sand. Plains.	Leinster	Unlikely – no preferred habitat
Sida picklesiana	3	Granite breakaway plateaux and upper slopes of breakaways.	70 km SW Wiluna	Unlikely – no preferred habitat
Tecticornia cymbiformis	3	Salt lake complex in red sandy clay.	Albion Downs Station	Unlikely – no preferred habitat
Thryptomene nealensis	3	Breakaways, skeletal soil	20 km NE Leinster	Unlikely – no preferred habitat
Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3	Sandstone outcrop; Stony hills; Breakaways	15 km NE Leinster; 30 km and 60 km N Leinster; Yakabindie Mine	Unlikely – no preferred habitat
Tribulus adelacanthus	3	Hardpan plain; Low stony hill	Mount Keith; 80 km NE Leinster	Possible
Verticordia jamiesonii	3	Sandy clay soils. Lateritic breakaways	Yakabindie Station; Wanjarri Nature Reserve; Leinster	Unlikely – no preferred habitat
Eremophila pungens	4	Sandy loam, clayey sand over laterite. Plains, ridges, breakaways.	Wanjarri Nature Reserve; Yakabindie Station; Lake Way Station; Leinster	Unlikely – no preferred habitat
Grevillea inconspicua	4	Loam, gravel. Along drainage lines on rocky outcrops, creeklines.	Yakabindie Station to Leinster; Violet Range; Boolylgoo Homestead	Possible – numerous local records
Hemigenia exilis	4	Laterite. Breakaways, slopes	Yakabindie Station; Wanjarri Nature Reserve; Mt Keith Station	Possible - numerous local records
Olearia arida	4	Sand plain; Red or yellow sand. Undulating low rises.	Albion Downs Station; Yeelirrie Project	Unlikely – no preferred habitat

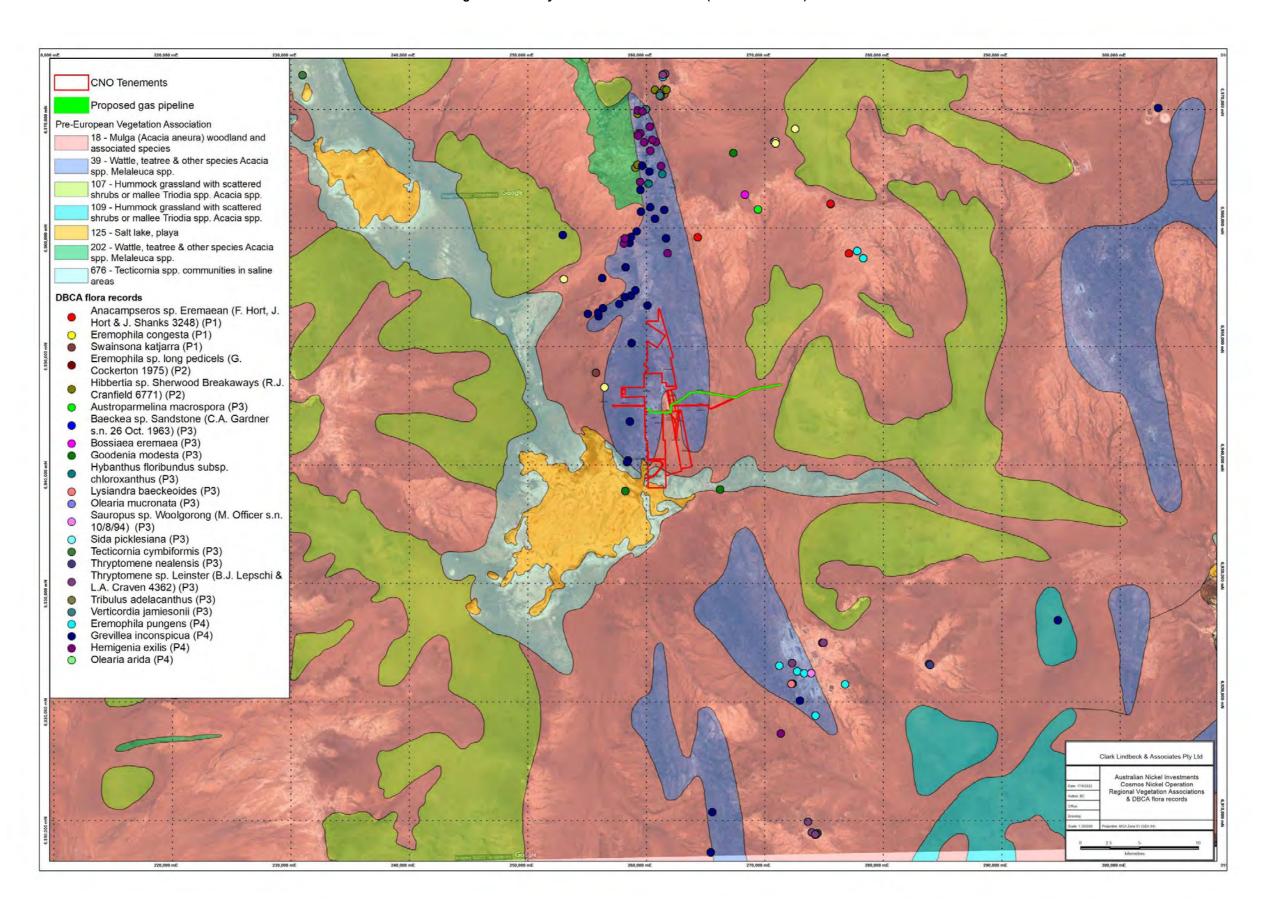
^{*}from DBCA records and Florabase (DBCA 2022)

Although none have been identified within the application area, ANI will avoid clearing Priority Flora and maintain a buffer area of 10m around and plants/populations identified in the future. Where impacts to individual plants or buffer areas cannot be avoided, ANI will seek advice from DBCA prior to undertaking any works.

^{*1 -} from EPBC PMST results

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Figure 4 – Priority flora records within 50km (CNO Tenements)





3.3.2 Conservation Significant Ecological Communities, Areas and Reserves

No Threatened Ecological Community (TEC) pursuant to Commonwealth or State legislation are located within the proposed redescribed clearing permit boundary. Vegetation is consistent with that previously mapped by Mattiske (2005), PEK (2017) and Botanica (2018) which are not limited to the Project area, and in which no DRF/Priority flora were included. Consistent with the original CPS 7914/1 application (and amendments 2 and 3), the proposed extension area (gas pipeline) is situated within the buffer zone of a Priority 1 PEC; the 'Violet Range (Perseverance Greenstone) vegetation complexes (banded ironstone formation).' This buffer has a mapped extent of over 19,000 hectares and the PEC a known extent over 14,000 hectares. PEK (2017) identified the four vegetation communities comprising this PEC, are unlikely to be found at the Project given that the survey area is located almost 100% on colluvial sheet wash plains, sheet wash deposits and alluvial floodplains and is situated to the east of the Violet Range. In addition, no areas of BIF have been mapped at the Project. The vegetation located within the proposed clearing area is not representative of the vegetation within this PEC. Three Priority 1 Priority Ecological Communities (PEC's), associated with unique stygofauna communities in calcrete are located around Lake Miranda: Lake Miranda West, Lake Miranda East and Yakabindie. These will not be impacted by the proposed clearing.

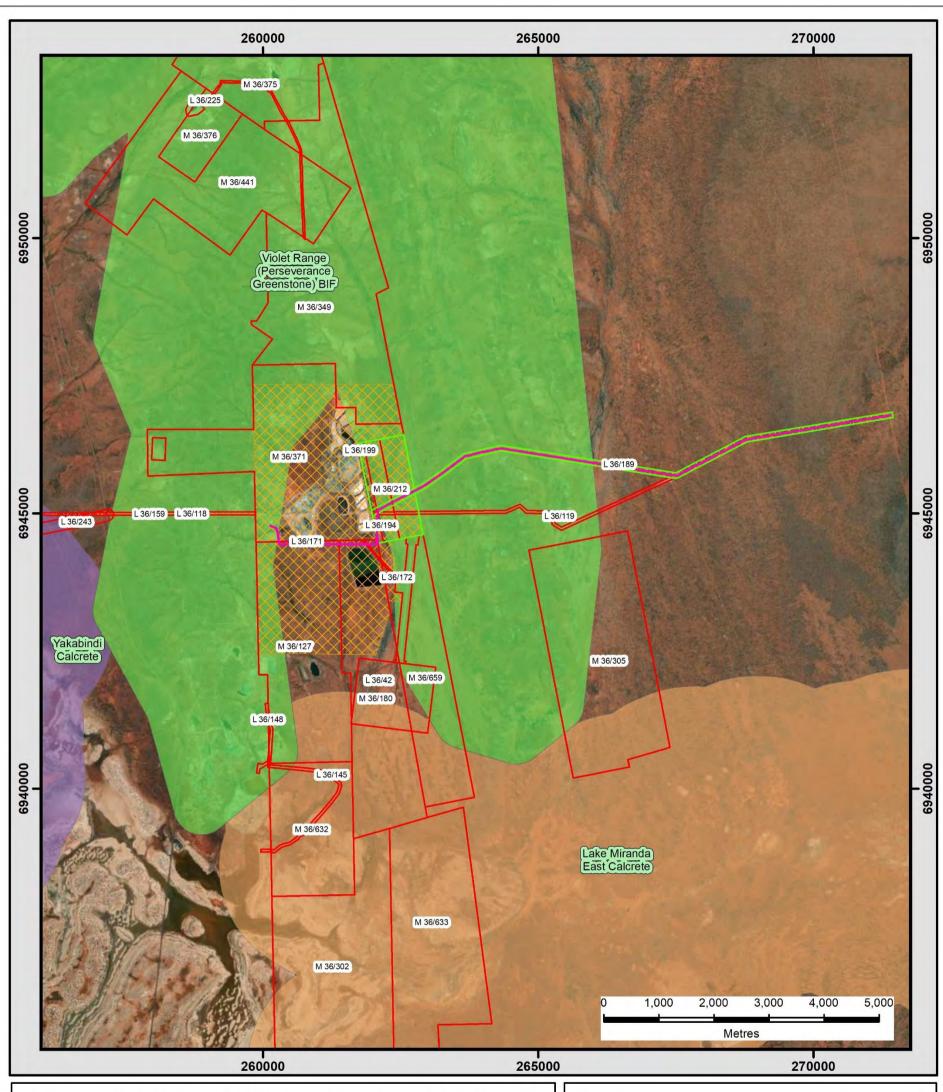
Specific to the extension to the clearing permit boundary, the central section of the proposed gas pipeline lies within the Priority 1 PEC (and buffer zone) 'Violet Range (Perseverance Greenstone) vegetation complexes (banded ironstone formation). The pipeline comprises <0.2% of the total area of the PEC. The vegetation located within this section of the proposed gas pipeline is not BIF but does contain reference to ironstone and quartz rocks for the A1 and S2 vegetation groups.

In addition to 'Violet Range – P1 PEC, three Priority 1 PEC's are associated with unique stygofauna communities in calcretes of Lake Miranda: Lake Miranda West, Lake Miranda East and Yakabindie (Figure 5).

The existing and proposed clearing area does not lie within or contain any ESA's or Conservation Reserves (DWER, 2022). The Wanjarri Nature Reserve (southern boundary) is located approximately 10 km north of the application area.



Figure 5 - Location of PEC at CNO and in region





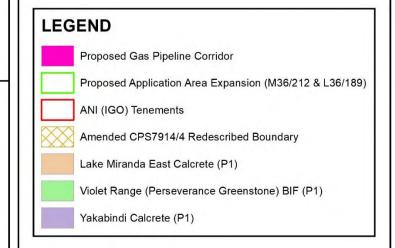
Issued: 5/01/2023

Projection: GDA2020 MGA Zone 51

Scale: 1:83,000

Drawer: Cosmos Evironmental Approver: Bryan Williams

Size: A4P





3.3.3 Introduced Flora and Fauna

Several weeds have been recorded at the Cosmos area:

- Paddy melon (Citrillus lanatus)
- Prickly paddy melon (Cucumis myriocarpus).
- Ruby dock (Acetosa vesicaria)
- Various thistles (Sonchus sp)
- Rosetted Tobacco (Nicotiana rosulate)
- Buffel Grass (Cenchrus ciliaris)

These species have mostly been recorded in disturbed or rehabilitated sites. Citrullus lanatus has been recorded within an undisturbed area along a drainage line.

These species are not declared weeds under the Biosecurity and Agriculture Management Act 2007. Weed management is undertaken onsite, with a report proved in Appendix F.

Several feral animals that have been declared a pest under the Biosecurity and Agriculture Management Act 2007 (BAM Act) have been recorded within the Cosmos area and include:

- Red Fox (Vulpes vulpes)
- Rabbit (Oryctolagus cuniculus)
- Feral Cat (Felis catus)
- Feral Donkey (Equus asinus)
- Feral Dog/ Dingo (Canis familiaris)

3.3.4 Terrestrial Fauna

Five terrestrial fauna surveys have been completed at CNO since 1999 (Appendix B).

No currently listed fauna species of conservation significance were recorded during any of the previous surveys and field searches have recorded no preferred or critical habitat types for any conservation significant vertebrate fauna species.

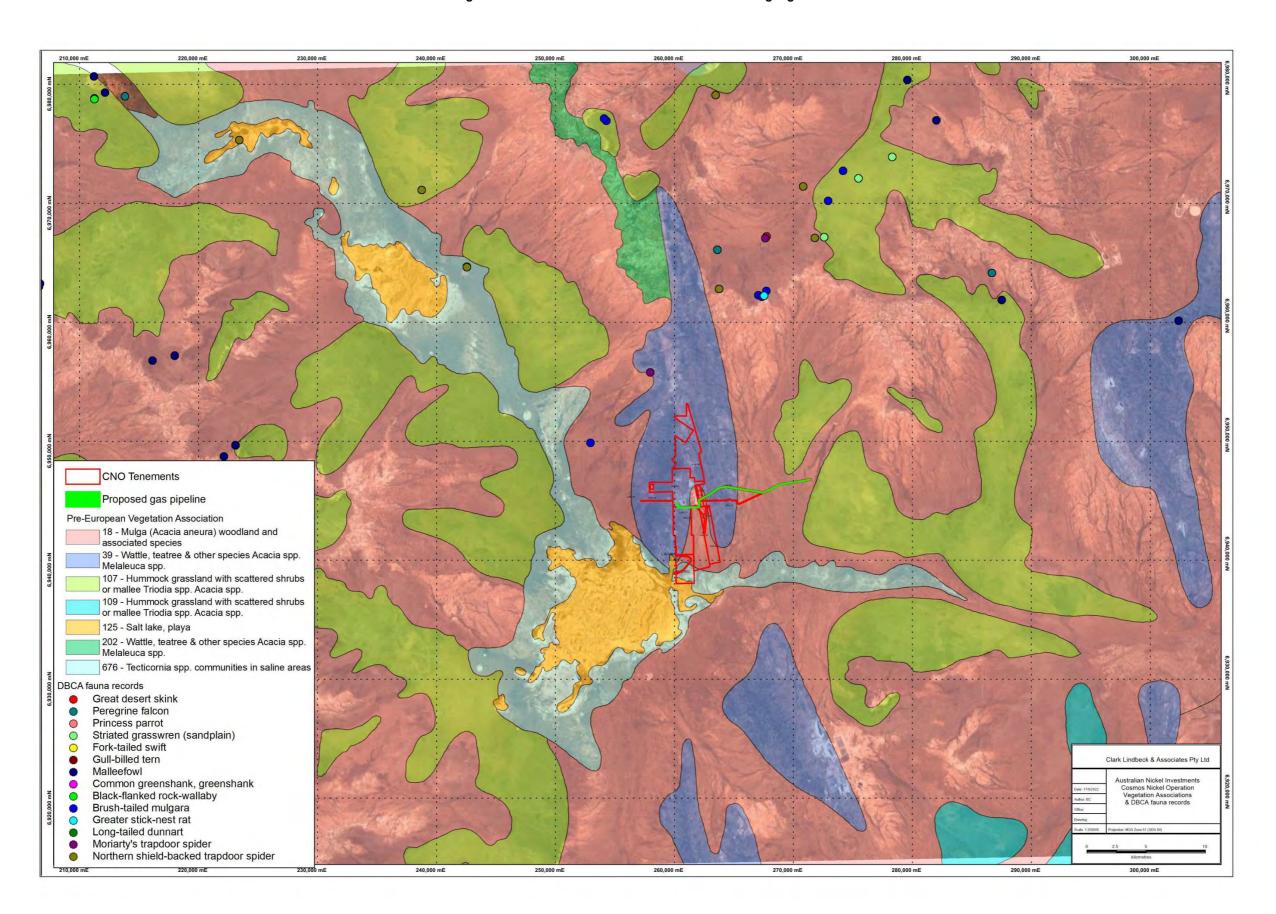
From the most recent assessment, only two fauna species of conservation significance were considered to possibly occur: Malleefowl and Rainbow Bee-Eater, although no evidence Malleefowl mounds or Rainbow Bee-eater burrows were observed.

A likelihood of occurrence/potential impact summary of significant fauna within 100km of the application area is included in **Appendix B**.

Conservation significant fauna records within 50km are shown below on Figure 6.

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Figure 6 - DBCA fauna records in CNO and surrounding region





3.4 Landform and Soils

The application area is located within the Eastern Murchison subregion, described as extensive areas of elevated red desert sandplains with minimal dune development. Internal drainage includes salt-lake systems associated with occluded paleodrainage systems. Broad plains with red brown soils are typically encountered and occasional breakaway complexes or red sandplains. Mulga woodlands are dominant and often rich in ephemerals (short life cycles), hummock grasslands (such as spinifex), and saltbush or samphire (succulent) shrublands (Cowan, 2001).

Land systems across the arid and semi-arid tropical regions were progressively classified and mapped, according to the geomorphology, soil and vegetation. The application area intersects eight Land Systems (Figure 7 and Table 3), predominantly the Jundee and Violet land systems. Typical characteristics of the Jundee Land System include gently inclined to level plains with mantles of fine ironstone gravel, subject to sheet flow, also sparse tracts receiving more concentrated run-on, and occasional irregular low sandy tracts and banks. The characteristics of the Violet Land System include extensive gently undulating to level plains and low rises with mantles of ironstone pebbles and level to very gently inclined plains subject to sheet flow with mantles of fine ironstone gravel.

Landforms belonging to the Violet Land System in this area generally form a part of the Perseverance Greenstone Belt. The landform type is generally described as an Undulating Plains landform which has formed over greenstone bedrock. Compared to the generally acidic granitic rocks, these greenstones are basic owing to high calcium and magnesium content. The undulating landscape consists of minor ridges, with slopes less than 10°, and colluvial flats, 50-500 m wide and 5 m below the ridges. The ridges (generally of hard metabasalts) and colluvial flats (ultrabasics) bore alkaline soils separated by a lime layer from the under-lying rock. Shallow calcareous earths and deep calcareous earths (to 1m deep) mantle the ridges and dips (respectively) of Undulating Plains. This landform occurs as a few large belts or islands surrounded by Broad Valleys. Colluvial flats are often drained by faint creek lines, too small to be mapped as Drainage Lines.

Details of land systems and associated regional scale soil types impacted by proposed clearing activities are provided in Table 3 and shown on Figure 7.



Figure 7 - Regional Land Systems

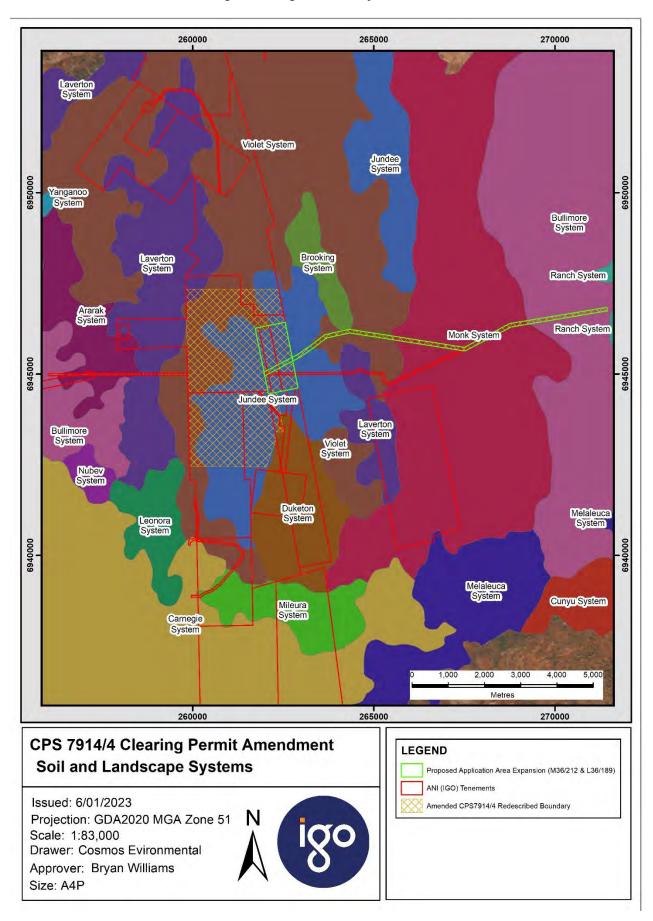




Table 3 – Land Systems

Land System	WA Soils	Description	Extent in Application Area (ha)
Ararak System	279A	Broad plains with mantles of ironstone gravel supporting mulga shrublands with wanderrie grasses.	10.68
Brooking System	279Br	Prominent ridges of banded iron formation supporting mulga shrublands and occasional minor halophytic communities.	0.21
Bullimore System	279Bu	Gently undulating sandplain with occasional linear dunes and stripped surfaces supporting spinifex grasslands with mallees and acacia shrubs.	23.65
Duketon System	279Dk	Stony wash plains and sandy banks supporting mulga shrublands and wanderrie grasses.	6.38
Jundee System	279Ju	Hardpan plains with variable gravelly mantles and minor sandy banks supporting weakly groved mulga shrublands.	873.31
Laverton System	279Lv	Greenstone hills and ridges with acacia shrublands.	15.96
Monk System	279Mk	Hardpan plains with occasional sandy banks supporting mulga tall shrublands and wanderrie grasses.	39.30
Violet System	79Vi	Gently undulating gravelly plains on greenstone, laterite and hardpan, with low stony rises and minor saline plains; supporting groved mulga and bowgada shrublands and occasionally chenopod shrublands.	432.12
			1401.61



3.5 Geology

The prescribed premises boundary lies within the Agnew-Wiluna portion of the Norseman-Wiluna Greenstone belt. The belt is attenuated and characterized by major wrench faults traceable over tens of kilometres with at least two phases of complex folding and generally steep dips. The greenstones are dominated by a sequence of NNW striking tholeiitic pillow basalts intercalated with a package of felsic to intermediate volcanoclastic-metasedimentary rocks and ultramafic spinifex textured and cumulate komatiite units.

The local area comprises a package of felsic to intermediate volcanoclastic rocks, with minor interflow sedimentary rocks and the polymictic Jones Creek Conglomerates. These units inter-connect with a sequence of tholeiitic basalts (Mt Goode Basalt) and two ultramafic komatiite flows, the Western and Central Ultramafic (Mt Goode Dunite) (EGI, 2018).

3.6 Hydrology and Hydrogeology

3.6.1 Surface Water

Cosmos is located within the Lake Carey sub-catchment of the Western Plateau Salt Lake hydrographic basin. There are several local catchments across which Cosmos fall, with numerous minor watercourses flowing towards Lake Miranda. These drainage features are ephemeral and only flow during large rainfall events associated with thunderstorms or cyclonic activity.

A main drainage feature situated to the east of Cosmos, Freshwater Creek, flows southward and feeds Lake Miranda during runoff events. Smaller tributaries to the north-west of Cosmos are directed around key landforms via large drains and out southwards joining the main drainage feature to Lake Miranda. The catchments at Kathleen Valley drain to the south west towards Goldfields Highway and Lake Miranda. Cosmos is not located within a Surface Water Proclamation Area.

3.6.2 Groundwater

The hydraulic gradient of the regional area is shallow and trends south towards Lake Miranda, the main groundwater sink. The region is characterised by areas of surficial sediments, rocks of low permeability and fractured and weathered rocks. Flow systems are described as local and intermediate within Precambrian rocks. Local systems have recharge and discharge areas within a few kilometres of one another and respond relatively rapidly (10 years) to increased groundwater recharge from large scale clearing and land activity changes. Groundwater levels are primarily sustained by rainfall recharge and groundwater salinity ranges from brackish to hypersaline (GRM, 2016). The pre-mining groundwater levels in the area of the Cosmos ranged between 15 to 20 metres below ground level (mbgl), equivalent to about 460 metres Reduced Level (mRL) Australian Height Datum (AHD).

4. ABORIGINAL HERITAGE

Cosmos is located within the Tjiwarl Native Title Determination Area. ANI works with the Tjiwarl to conduct archaeological and ethnographic heritage surveys to identify places of heritage significance under various Deeds of Agreement. ANI then works to avoid these areas in the design of the project with the aim to mitigate and minimise impacts to any places deemed significant and important to the Tjiwarl people.

ANI has commissioned and facilitated heritage surveys completed by the Tjiwarl people in order to identify any culturally significant sites. Effort to avoid these sites is made by placing and designing infrastructure around or away from these areas. This includes design amendments to avoid any areas of cultural and mythological significance. ANI will also engage a heritage monitoring team to relocate any known potential artefacts identified during the surveys prior to activity where required.



ANI is well progressed towards agreement of a broad Mining Agreement/ Land Access Agreement with the Tjiwarl. ANI will continue to consult with the Tjiwarl on aspects of the project and its planning. Where heritage sites cannot be avoided, ANI will apply for a Section 18 consent under the Aboriginal Heritage Act 1972 in consultation with the Tjiwarl to destroy the site or relocate the artefacts. The Section 18 application is a transparent process with the Tjiwarl AC whom are provided a draft of the application and opportunity to comment on it prior to its submission.

5. CLEARING PRINCIPLES

Schedule 5 of the Western Australian Environmental Protection Act (1986) provides a list of 10 clearing principles against which a proposal can be assessed to determine if clearing should proceed. A brief statement against these principles based on the outcomes of the <u>proposed permit boundary amendment</u> (CPS 7914/4) is provided below. The clearing principles for the existing approved CPS 7914/3 clearing boundary have been assessed in previous clearing permit applications and annual clearing compliance reports submitted to the department.

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

The Project lies within the central area of the Eastern Murchison (MUR1) Interim Biogeographic Regionalisation for Australia (IBRA) Sub Region of the Murchison Biogeographic Region which totals over 7.8 million hectares (Cowan, 2001).

Based on Beard (Shepherd et al. 2002), two vegetation associations occur in the proposed clearing areas:

- 18: Low woodland; mulga (Acacia aneura)
- 39: Shrublands; mulga scrub.

These vegetation associations are well represented, with more than 98% of pre-European levels of native vegetation remaining within the State and Bioregion (Government of Western Australia, 2019; GIS Database).

Eight vegetation groups were mapped by Mattiske (2006) along the gas pipeline corridor and no DRF or Priority flora species were recorded, or, have ever been recorded at CNO.

The Project will not significantly reduce the extent of the local vegetation communities recorded at the Project. It is expected that all fauna habitats within the proposed gas pipeline corridor are common within the locality and occur contiguously with the same habitat types outside of the clearing area. The overall fauna assemblage within the study area would not be unique and would also occur outside of the study area.

Based on the above, the proposed clearing envelope is not considered to comprise a high level of biological diversity. All vegetation groups are represented extensively outside the proposed clearing area and the proposed clearing is not expected to reduce the biodiversity of the area. Based on the above, the proposed clearing is not at variance to this Principle.

b) 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

A search of current available flora and fauna databases identified a number of conservation significant species within the local area (20 km radius) (DBCA, 2022b):

 Trapdoor spider (Kwonkan moriartii – P2). The Trapdoor spider (Kwonkan moriartii) is a relic collection from 1962. There have only been two individuals of this species



recorded from the entire Eastern Murchison subregion, and collection data suggests that herbaceous graminoids and/or sparse hummock grassland is the preferred habitat which is not located in the proposed clearing area (DPaW, 2018).

• Brush-tailed Mulgara (Dasycercus blythii – P4). Recorded in spinifex sandplain and this habitat is not located in the proposed clearing area.

No evidence of conservation significant fauna has been recorded in fauna survey work completed at CNO to date.

As the vegetation groups, part of the extension to the overall clearing area, are consistent with those previously identified, no critical habitat types are expected to be impacted.

Given the mobility of fauna species and the lineal nature of the proposed clearing, it is considered the proposed clearing would have no impact on the conservation significance of fauna species.

All fauna habitats within the proposed clearing envelope are common in the local area and occur contiguously with the same habitat types outside of the proposed clearing area.

In relation to SRE species, the habitats identified within the study area are typical of those occurring in the wider subregion and they are also contiguous with very similar habitat extending beyond the study area.

Using habitat as a surrogate to infer wider distributions, if an SRE taxa were to occur, they would not be restricted solely to the survey area, as there are no geomorphological or habitat attributes that would suggest a high risk of species level distributions being restricted to the scale of the survey area.

ANI considers that the proposed clearing area is not necessary for the on-going maintenance of any significant fauna habitat and that equal or higher quality vegetation and fauna habitats exist throughout the surrounding area (i.e. with less disturbance).

In addition, the proposed clearing will not significantly reduce the extent of flora or fauna habitats at the Project or in the region. Given the above, the proposed clearing will not be at variance to this Principle.

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

No plant taxa located in the proposed clearing area are gazetted as Threatened under the EPBC Act or BC Act. No Priority flora has been recorded at the Project.

Given the above, the proposed clearing will not be at variance to this Principle.

d) 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)

No TEC's are listed under the Commonwealth Environmental Protection and Biodiversity Conservation Act 1999 or endorsed by the Western Australian Minister for the Environment for the Project area.

Therefore, the proposed clearing is not at variance to this Principle.

e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared

The proposed clearing comprises two Beard Vegetation Associations all of which have approximately 98% of their pre-European extent remaining.



Given the above, the vegetation proposed to be cleared cannot be considered significant as a remnant in an area that has been extensively cleared.

Therefore, the proposed clearing will not be at variance to this Principle.

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

A series of small drainage lines trend east and south-east from rocky hills to the west, joining a main north-south drainage line known as Freshwater Creek. Freshwater Creek becomes less distinct toward the south where surface water flows are less confined within channels and flood across a wider plain. Surface drainage is largely via sheet flow with surface water flow only following periods of heavy rainfall.

Ephemeral drainage lines are present in the overall clearing area and surface runoff within these drainage lines only flows following heavy rainfall associated with thunderstorms or cyclonic activity. The vegetation in these drainage lines is not considered to be riparian vegetation.

There is, therefore, no vegetation growing in association with a water course or wetland. The proposed clearing is not at variance to this Principle.

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

The clearing permit area is broadly predominantly mapped as the Violet and Jundee land systems according to Pringle et al., 1994.

The proposed clearing of vegetation is not likely to lead to land degradation issues such as salinity, water logging or acidic soils and therefore is not at variance to this Principle.

h) 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 conservation or nature reserves within the Project area.

The Wanjarri Nature Reserve is approximately 12 km north east of the proposed clearing area.

Given the distance to the nature reserve, the proposed clearing will not have any impact on the environmental values of the area. The proposed clearing, therefore, is not at variance to this Principle.

i) 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

Surface water in the Project area is sourced from direct precipitation and surface runoff following rainfall events. The Murchison area often receives considerable rainfall from degenerating cyclonic depressions from the northern parts of the State. However, overall, the mean annual rainfall is only 266.2 mm.

Evaporation rates in the region vary from 3000-3200 mm annually.

With such high annual evaporation rates, there is little surface flow during normal seasonal rains. Given the low annual rainfall and high evaporation rate there is expected to be minimal rainfall recharge that would impact the groundwater levels or the quality of the groundwater in the local region.



There is no surface water of significance, large drainage lines, lakes or swamps in or in close proximity to the proposed clearing area. Drainage lines at CNO are ephemeral and only flow following significant rainfall.

The area proposed to be cleared does not fall within a Public Drinking Water Source Area (PDWSA) or PDWSA Protection Zone (www.dow.wa.gov.au).

The clearing of native vegetation is not likely to cause deterioration in the quality of surface or groundwater and, therefore, the proposed clearing is not at variance to this Principle.

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

The area proposed to be cleared is surrounded by native vegetation. The climate of the Eastern Murchison subregion is arid, with a variable bimodal rainfall that usually falls in winter (Cowan, 2001). Annual average rainfall is only 266.2 mm with little surface flow during normal seasonal rains.

As there is little surface flow during normal rains, the proposed clearing is not likely to cause or exacerbate the incidence or intensity of flooding. Therefore, the proposed clearing is not at variance to this Principle.

6. ENVIRONMENTAL MANAGEMENT

6.1 Disturbance Data

Disturbance data is managed through the internal Land Use Permitting system. All clearing under CPS 7914/3 is recorded using GPS in accordance with condition 7 of CPS 7914/3. Information including date, total area cleared and purpose for the clearing is recorded and reported annually to DMIRS.

Disturbance data has been verified through orthophotography captured in 2017 (aerial flyover) and 2019 (drone flyovers), sentinel satellite imagery, as well as using survey pickups and visual checks on the ground. Disturbance is assessed continuously and amendments made where additions or corrections are required. The most recent annual report, required under condition 8 (a) of the permit is provided in **Appendix C**.

6.2 Weed Management

In accordance with condition 5 of CPS 7914/3, a weed management program is implemented at Cosmos to prevent and control invasive weed species. Targeted weed spraying is undertaken by environmental contractors annually and add hock spraying is undertaken inhouse by site-based environmental personnel. Report on June 2021 weed management program is provided in (**Appendix D**).

6.3 Water Course Management

In accordance with condition 6 of the permit, where a water course may be impacted by clearing, ANI installs surface water infrastructure where required to control and direct surface water flows to minimise flooding and maintain the existing surface flow. This may include bunding, culverts, drainage lines or collection sumps. ANI also grade areas as required to ensure any potentially contaminated stormwater or runoff from clearing is directed to a designated collection area and treated accordingly if reused or disposed.

Surface water management is incorporated into the design of the site infrastructure for a 1 in 100-year event. Various flood inundation scenarios have been modelled. Drainage infrastructure has been



constructed around key mining activities and landforms, with drainage channels diverting regional rainfall through and around the mine site to prevent flooding and preserve water quality.

6.4 Environmental Commitments

ANI is committed to Environmental Sustainability through its Environmental Policy, which includes minimising impacts on the environment and local communities. As part of this application ANI is proposing the following:

ANI environmental personnel will undertake an internal ground and desktop search as per the Cosmos Land Use Procedure CNO-ENV-PRO-3316 targeting the proposed area to be cleared plus 50 m buffer.

- Avoid clearing large trees and fauna breeding habitat identified for conservation significant species.
- Avoid disturbing any significant drainage line so as not to alter its flow.
- Where possible, utilise previously disturbed areas to minimise impacts on natural bushland.
- Rehabilitate all sites and tracks as per the Cosmos Mine Closure Plan.
- Undertake weed control as per the Cosmos Weeds Spraying and Chemical Handling Procedure
- Avoid clearing Priority Flora (PF) and maintain a buffer area of 10 around and plants/populations identified. Where impacts to individual plants or buffer areas cannot be avoided, seek advice from DBCA prior to undertaking any works.



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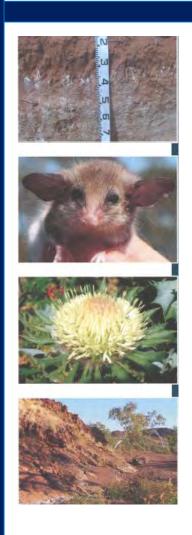
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APPENDIX B - 2022 DESKTOP FLORA AND FAUNA ASSESSMENT



AUSTRALIAN NICKEL INVESTMENTS PTY LTD

COSMOS NICKEL OPERATION PROPOSED GAS PIPELINE

DESKTOP FLORA AND FAUNA ASSESSMENT

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Appendices

Appendix 1: Conservation Rating Definitions

Appendix 2: EPBC PMST Results

Appendix 3: DBCA flora search results Appendix 4: DBCA fauna search results

1.0 INTRODUCTION

1.1 BACKGROUND

Australian Nickel Investments Pty Ltd (ANI) purchased Cosmos Nickel Operation (CNO) in 2015 with the aim of recommencing development at the Project. Mining at the Project historically was undertaken by Jubilee Mines NL from 1999-2007 and then by Xstrata until the Project was placed on care and maintenance in 2012.

ANI discovered the Odysseus nickel ore body below the Cosmos open pit and development of the Odysseus mine at Cosmos is ongoing, with underground mine development progressing alongside the construction of surface infrastructure.

A new dual-fuel (gas and diesel) power station was completed in 2021 and the Goldfields Gas Pipeline (GGP) Cosmos Spur connecting the GGP to the power station was reinstated and will support the next phase of development and operations at CNO.

To provide additional supply of gas to the power station, ANI propose to construct an additional 12.6 km lateral gas pipeline from the GGP to the CNO alongside the existing spur. It is anticipated that clearing for the pipeline will be approximately 40 m wide during construction, following all will be rehabilitated with the exception of a single lane access/inspection road along the pipeline.

1.2 OBJECTIVES

This desktop assessment has been completed to:

- provide a summary of the flora/fauna work completed at CNO
- complete a preliminary assessment of the potential occurrence of flora and fauna species of conservation significance in the Project area and surrounds, and, potential impacts of the proposed 12.6 km lateral gas pipeline on conservation significant flora and fauna.

1.3 LOCATION

The Project is located approximately 40 km north of Leinster. Access via road is from the Goldfields Highway north of Lake Miranda (Figure 1). The Project is located in the Shire of Leonora.

The tenure of the proposed additional lateral gas pipeline is shown in Figure 2.

1.4 LEGISLATIVE CONTEXT

Flora and fauna in Western Australia is protected formally and informally by various legislative and non-legislative measures, which are:

- Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) Australian Government
- Biodiversity Conservation Act 2016 (BC Act) WA State Government.
- WA Department of Biodiversity, Conservation and Attractions (DBCA) Priority lists for flora, ecological communities and fauna (non-legislative)
- Recognition of locally significant populations by DBCA (non-legislative).

An outline of the conservation rating categories is provided in Appendix 1.



Figure 1: Location of the Project

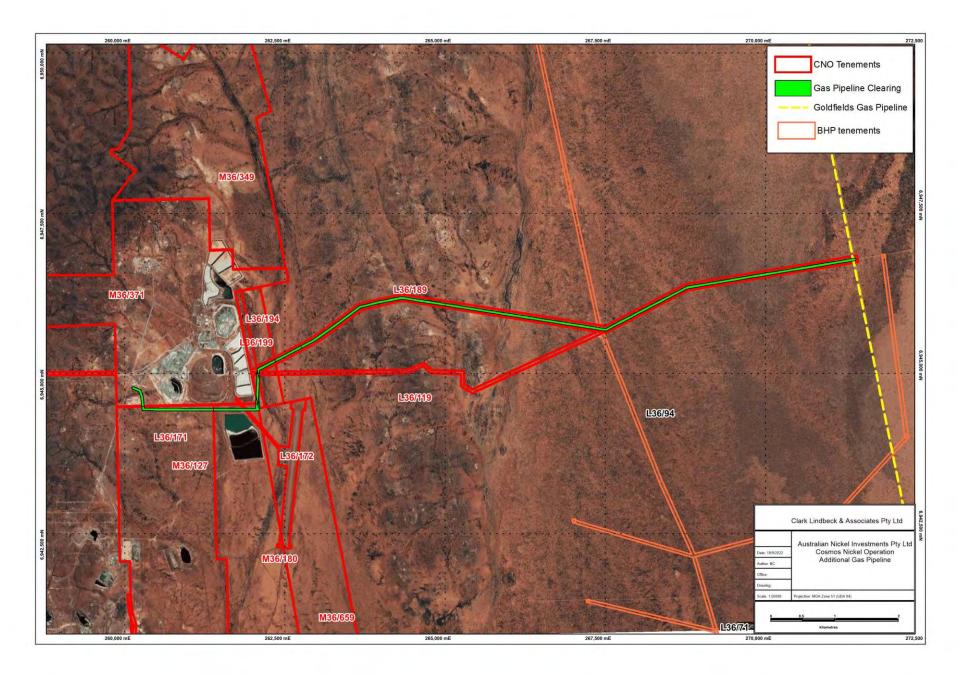


Figure 2: CNO tenure and proposed clearing

2 METHODOLOGY

2.1 LITERATURE REVIEW

A number of vegetation and fauna assessments have been completed at CNO since the Project commenced and these were reviewed as part of the desktop assessment. In addition, several vegetation and fauna assessments have been completed regionally, in particular and more recently ~40km north for the BHP Billiton Mt Keith satellite Project. The records of flora or fauna of conservation significance and the habitat were reviewed to ascertain if similar habitat is present within the proposed gas pipeline route.

2.2 DATABASE SEARCHES

2.2.1 Environmental Protection and Biodiversity Conservation Act Protected Matters

The *EPBC Act* Protected Matters Search tool (PMST) was utilised to provide results for matters of National Environmental Significance within the proposed clearing area with a 50 km buffer (DCCEEW, 2022). The results are attached as Appendix 2.

2.2.2 Flora

A search of the DBCA Threatened/ Priority flora spatial database (DBCA, 2022a) was undertaken to aid in the compilation of a list of conservation significant flora at the Project, in particular, any new records since the previous biological survey work.

2.2.3 Fauna

A search of the DBCA Threatened/ Priority fauna spatial database (DBCA, 2022b) was undertaken to aid in the compilation of a list of conservation significant fauna at the Project, in particular, any new records since the previous biological survey work.

2.2.4 Communities

The presence of Threatened and Priority Ecological Communities (TEC's & PEC's) was determined by examining Geographic Information System (GIS) data supplied by the DBCA upon request within a 100 km buffer of the survey area shapefile (DBCA, 2019).

2.2.5 Environmentally Sensitive Areas (ESA's) and Conservation Reserves

The Department of Water and Environmental Regulation (DWER) Clearing Permit System Map Viewer was used to determine the location of any ESA's and Conservation Reserves (DWER, 2022c).

2.2.6 Vegetation Type and Extent

Vegetation extent and status data was sourced from the Department of Agriculture and Food (DAFWA) report and its associated GIS file (Shepherd *et al*, 2002). This data comprises Beard's Pre-European vegetation groups.

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3 LITERATURE REVIEW

3.1 COSMOS VEGETATION SURVEY WORK UNDERTAKEN TO DATE

3.1.1 Overview

The Cosmos Project is located in the Austin Botanical District of the Eremaean Province, as defined by Beard (1990). The Austin Botanical District covers over 300 000 km² and is essentially Mulga (*Acacia aneura*) woodlands associated with red loams over siliceous hardpans on the plains reducing to scrub on the rises and hills (Beard, 1990). Mulga and *Eremophila* shrublands dominate on stony plains whilst chenopod communities are more often associated with duplex soils (Pringle *et al*, 1994).

Numerous vegetation surveys have been undertaken at the Project including historically Dames and Moore (1998) and Mattiske Consulting Pty Ltd (Mattiske) (2000 – 2009, 2011), and more recently PEK Enviro (2017) and Botanica Consulting (2018) (Table 1).

The PEK (2017) assessment identified vegetation groups based on landforms and are consistent with that identified by Mattiske (2004, 2005) and that the vegetation types recorded are considered to be common and widespread regionally.

To date, 89 species, from 40 genera and 19 families have been recorded on the site (PEK Enviro 2017). No Threatened or Priority flora species have been recorded at the Project to date.

Table 1: List of vegetation surveys completed at the Project

YEAR	SURVEY TITLE
1998	Dames & Moore (1998). Vegetation of the Cosmos Nickel Project.
2000	Mattiske (2000). Flora and Vegetation Assessment of the Proposed Pipeline Route Options – Cosmos Nickel Project.
2003	Mattiske (2003). Flora and Vegetation Survey of the Proposed Airstrip Extension – Cosmos Nickel Project.
2004	Mattiske (2004) Flora and Vegetation Survey of the Proposed Cosmos Nickel Expansion, Prepared for URS Australia, May 2004.
2005	Mattiske (2005) Flora and Vegetation Survey of the Cosmos Nickel Project, including the Prospero Expansion Area.
2006	Mattiske (2006). Flora and Vegetation Survey of the Proposed Gas Pipeline and Area M36/212, Cosmos Mine Site. Report prepared for Jubilee Mines NL, October 2006
2011	Mattiske (2011) Flora and Vegetation Survey of Proposed Evaporation Pond Extensions, Cosmos Nickel Project.
2017	PEK Enviro (2017) Cosmos Nickel Project. Level 1 Vegetation, Flora and Fauna Survey.
2017	Botanica Consulting Pty Ltd (2017) Vegetation Monitoring Cosmos Nickel Operations. Prepared for Western Areas Limited. November 2017.
2018	Botanica Consulting (2018b) Memorandum: Cosmos Water Management Pond Expansion, Flora and Vegetation Desktop Assessment. Prepared for Western Areas Ltd. May 2018.

3.1.2 Survey of gas pipeline route

Mattiske (2006) completed a flora and vegetation assessment of the original gas pipeline route corridor (L36/189, L36/194, M36/212 – now L36/199), within which the new proposed gas pipeline will be constructed.

The vegetation map and descriptions recorded by Mattiske (2006) are presented in Figure 3 and those mapped by Mattiske (2005) along the western side of the gas pipeline corridor in Figure 4.

The survey area, which is consistent with that for the proposed gas pipeline (second spur), recorded eight vegetation groups and all were considered to be widespread and well represented outside of the surveyed area with the exception of A2. The A2 vegetation group (occurring in red gravelly clays in minor flow lines, Mattiske 2006) comprises a very small section of the proposed clearing area and is expected to be contiguous either side of the surveyed area (Figure 3).

The survey recorded a total of 23 families, 39 genera, 59 species and 68 taxa. Two weed species were recorded: *Lysimachia arvensis* (formerly *Anagallis arvensis* var. *caerulea*) and *Citrullus colocynthis*. These species are not listed as 'Declared Pests' under the *Biosecurity and Agriculture Management Act* 2007 (DPIRD 2022).

No DRF or Priority flora were recorded along the gas pipeline route by Mattiske (2005; 2006).

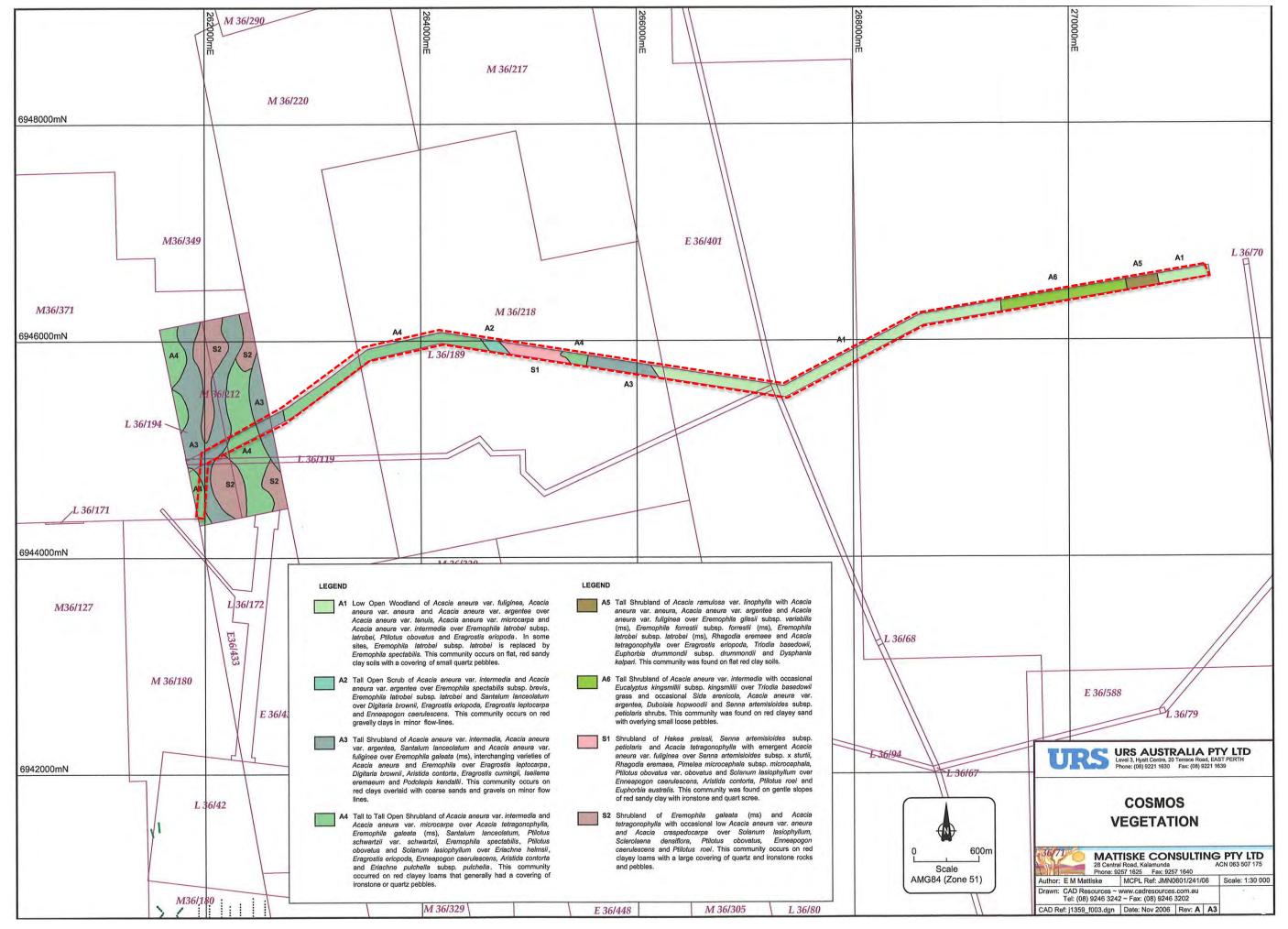


Figure 3: Vegetation communities mapped by Mattiske (2006) along the gas pipeline route (from Mattiske 2006) – red dashed line is the pipeline route *currency of species names has not been validated

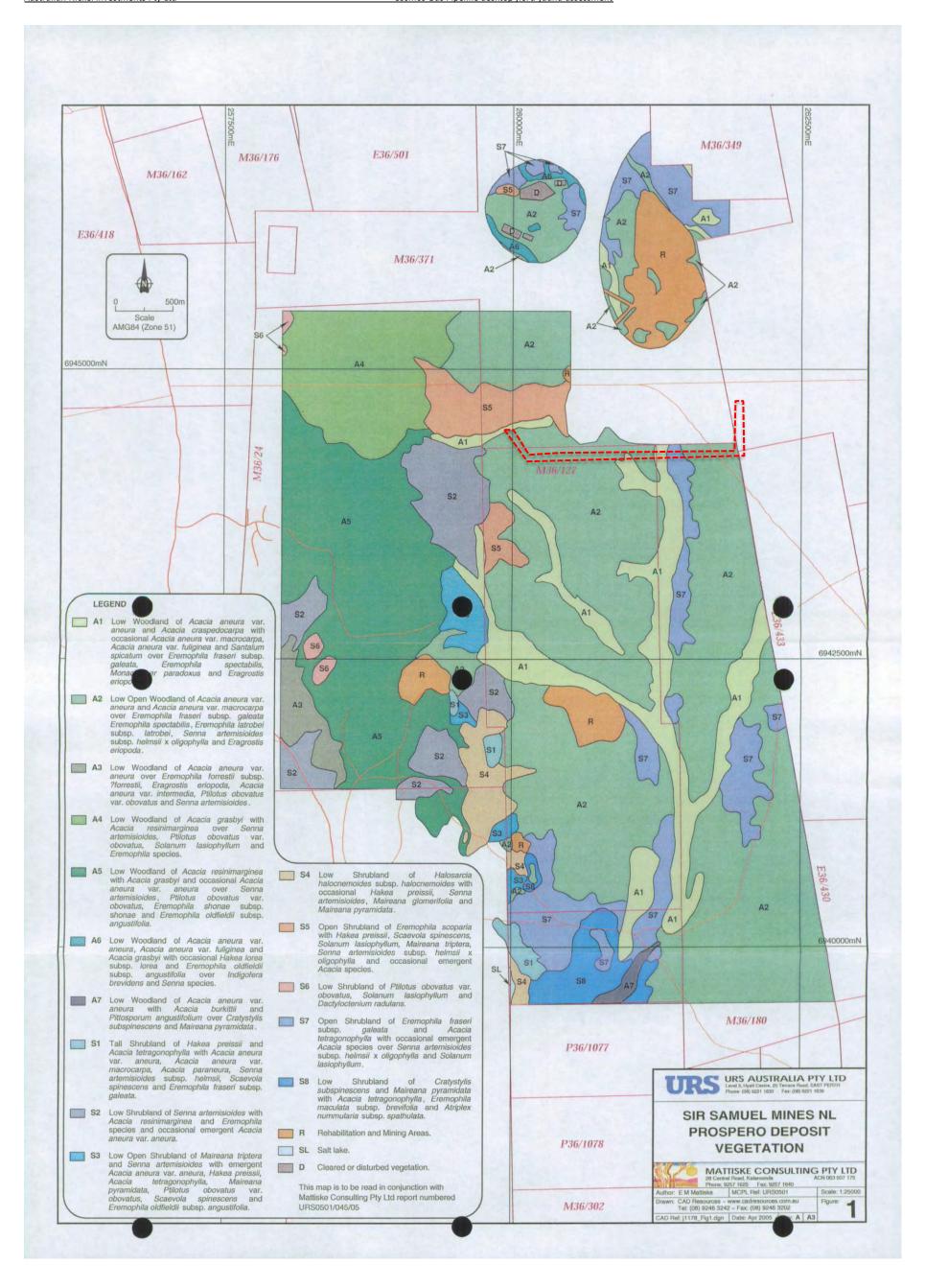


Figure 4: Vegetation groups identified at the Project on the western side of the gas pipeline route (from Mattiske 2005) – hatched red line is western extent of pipeline route

3.2 COSMOS FAUNA SURVEY WORK UNDERTAKEN TO DATE

3.2.1 Terrestrial Fauna

Five terrestrial fauna surveys have been completed at CNO since 1999:

- Hart, Simpson and Associates (1999). A Vertebrate Fauna Assessment of the Cosmos Nickel Project Area.
- Biota Environmental Sciences (2003). Bellevue Mine Airstrip Extension Rare Fauna Survey. Letter report to URS Australia, 5 July 2003.
- Biota Environmental Sciences (2004) Cosmos Nickel Mine Extension Fauna Survey.
- Ninox Wildlife Consulting (2005) Vertebrate Fauna Habitat Assessment of the Proposed Expansions to the Cosmos Nickel Mine, Near Leinster, Western Australia.
- PEK Enviro (2017). Cosmos Nickel Project. Level 1 Vegetation, Flora and Fauna Survey.

No currently listed fauna species of conservation significance were recorded during any of the previous surveys and field searches have recorded no preferred or critical habitat types for any conservation significant vertebrate fauna species (PEK, 2017; Ninox 2005).

From the most recent assessment, PEK (2017) only two fauna species of conservation significance were considered to possibly occur: Malleefowl and Rainbow Bee-Eater, although no evidence Malleefowl mounds or Rainbow Bee-eater burrows was observed.

4 DATABASE SEARCH RESULTS

4.1 EPBC PROTECTED MATTERS SEASRCH TOOL RESULTS

The results of the EPBC PMST in relation to threatened flora and fauna have been incorporated in the flora and fauna database results sections.

The EPBC search results confirmed there are no TEC's or Commonwealth listed Reserves at or surrounding the proposed gas pipeline.

4.2 FLORA DATABASE RESULTS

A search of the EPBC PMST and DBCA Threatened flora database (50 km and 100 km buffer respectively) revealed 50 flora species of conservation significance. The results are attached as Appendix 2 (EPBC) and Appendix 3 (DBCA) respectively.

Seringia exastia was listed in the DBCA results, but has recently had its Threatened status delisted (as of 30 September 2022), as such it is not included in Table 2.

Table 2 and Figure 5 present the 24 flora species of conservation significance recorded within 50 km of the Project and their preferred habitat and likelihood of occurrence.

Table 2: DBCA threatened flora search results within TR and surrounds

Taxon	Cons Rating	Preferred habitat*	Closest records	Likelihood of occurrence
Atriplex yeelirie*1	Т	Highly restricted population on Yeelirie Station within palaeovalley of Yilgarn valley (associated with near surface Uranium mineralisation).	Yeelirie Station; Albion Downs	Unlikely – no preferred habitat
Anacampseros sp. Eremaean (F. Hort, J. Hort & J. Shanks 3248)	1	Sand patches inside rocks, brown sandy clay, granite. Depressions in rock outcrops, breakaways, flats	Yakabindie Station	Unlikely – no preferred habitat or local records
Eremophila congesta	1	Lateritic outcrops in greenstone hills, stony quartzite slopes.	Mount Keith	Unlikely – no preferred habitat
Swainsona katjarra	1	Eucalyptus camaldulensis open woodland over mulga, Melaleuca sp. and Grevillea spinosa shrubland;	Yakabindie Station	Unlikely – no preferred habitat
Eremophila sp. long pedicels (G. Cockerton 1975)	2	Drainage line. Dark red loam. Dark red hardpan over palaeochannel; Mulga woodland	Mt Keith	Unlikely – no local records.
Hibbertia sp. Sherwood Breakaways (R.J. Cranfield 6771)	2	Weathered granite, coarse siliceous silty sand; Breakaways	Yakabindie Station (Mt Keith Satellite operation)	Unlikely – no preferred habitat
Austroparmelina macrospora	3	Red brown clayey sand, plain.	Wanjarri Nature Reserve	Possible – low (no local records)
Baeckea sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963)	3	Orange sand. Flats.	31 km W of Agnew	Unlikely – no preferred habitat
Bossiaea eremaea	3	Red sandplain; Deep red sand.	Wanjarri Nature Reserve	Unlikely – no preferred habitat
Goodenia modesta	3	Rangeland, salt lake, grey clay. Red loam, sand.	West side Lake Miranda; Yakabindie Station	Unlikely – no preferred habitat
Hybanthus floribundus subsp. chloroxanthus	3	Dark red-brown soil, never sandy, rich in iron oxide, laterite. Rocky areas, creek banks, along drainage lines.	Yakabindie Station.	Possible – low (no local records)

Taxon	Cons Rating	Preferred habitat*	Closest records	Likelihood of occurrence
Lysiandra baeckeoides	3	Ironstone slope.	Leinster Downs Station - >25 km south of CNO	Unlikely – no preferred habitat or local records
Olearia mucronata	3	Schistose hills, along drainage channels.	Waterfall gully	Unlikely – no preferred habitat
Sauropus sp. Woolgorong (M. Officer s.n. 10/8/94)	3	Red sand. Plains.	Leinster	Unlikely – no preferred habitat
Sida picklesiana	3	Granite breakaway plateaux and upper slopes of breakaways.	70 km SW Wiluna	Unlikely – no preferred habitat
Tecticornia cymbiformis	3	Salt Lake complex in red sandy clay.	Albion Downs Station	Unlikely – no preferred habitat
Thryptomene nealensis	3	Breakaways, skeletal soil	20 km NE Leinster	Unlikely – no preferred habitat
Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3	Sandstone outcrop; Stony hills; Breakaways	15 km NE Leinster; 30 km and 60 km N Leinster; Yakabindie Mine	Unlikely – no preferred habitat
Tribulus adelacanthus	3	Hardpan plain; Low stony hill	Mount Keith; 80 km NE Leinster	Possible
Verticordia jamiesonii	3	Sandy clay soils. Lateritic breakaways	Yakabindie Station; Wanjarri Nature Reserve; Leinster	Unlikely – no preferred habitat
Eremophila pungens	4	Sandy loam, clayey sand over laterite. Plains, ridges, breakaways.	Wanjarri Nature Reserve; Yakabindie Station; Lake Way Station; Leinster	Unlikely – no preferred habitat
Grevillea inconspicua	4	Loam, gravel. Along drainage lines on rocky outcrops, creeklines.	Yakabindie Station to Leinster; Violet Range; Boolylgoo Homestead	Possible – numerous local records
Hemigenia exilis	4	Laterite. Breakaways, slopes	Yakabindie Station; Wanjarri Nature Reserve; Mt Keith Station	Possible - numerous local records
Olearia arida	4	Sand plain; Red or yellow sand. Undulating low rises.	Albion Downs Station; Yeelirrie Project	Unlikely – no preferred habitat

^{*}from DBCA records and Florabase (DBCA 2022)

^{*1 –} from EPBC PMST results

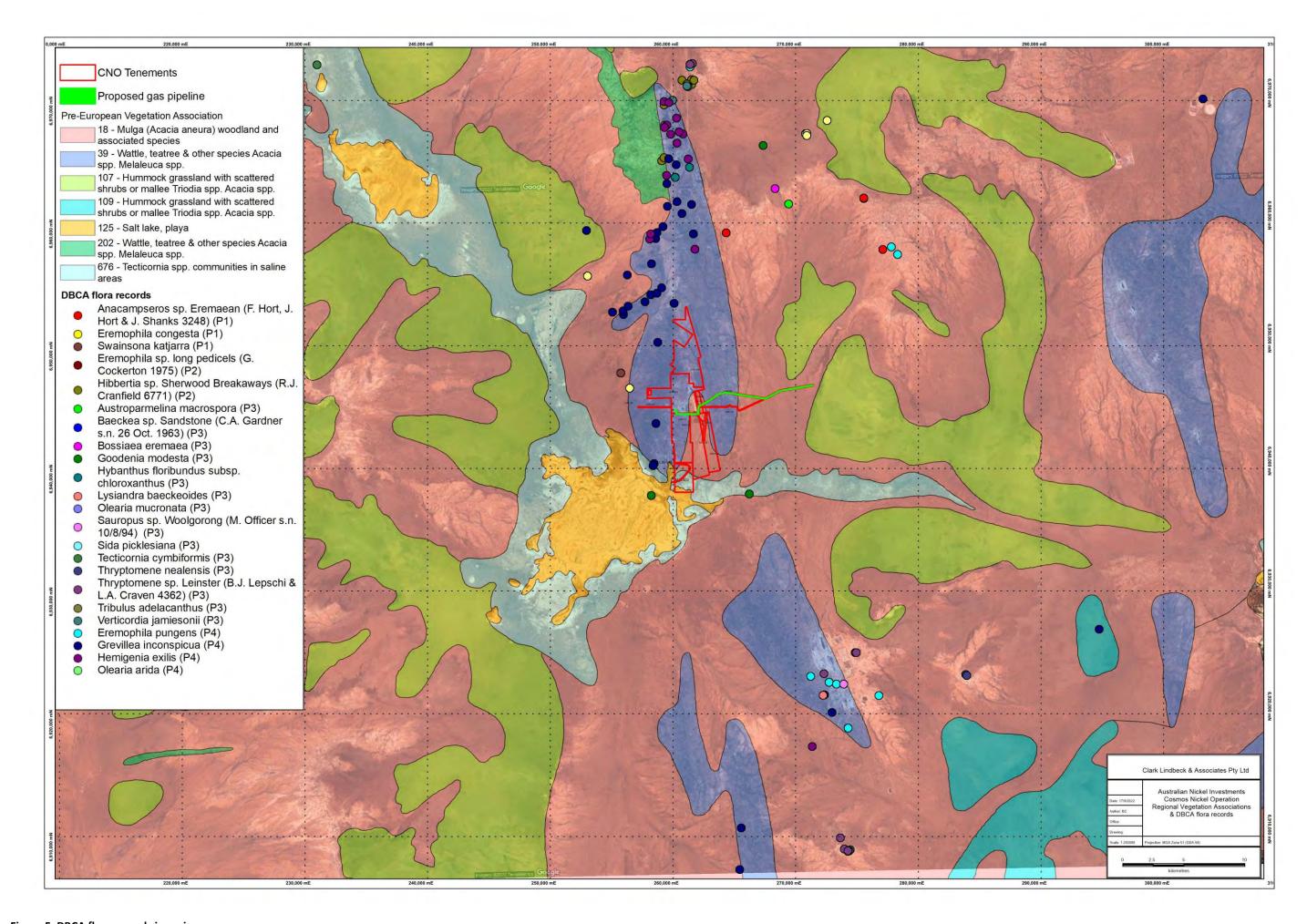


Figure 5: DBCA flora records in region

4.3 FAUNA DATABASE RESULTS

A search of the EPBC Protected Matters Tool (PMST) and DBCA Threatened fauna database (50 km and 100 km buffer respectively) identified a number of species, including wetland avifauna (some of which are listed as migratory and or marine) that inhabit estuaries, mudflats, saltmarshes, sandflats and beaches, wetlands with shallow water edges, where they feed on invertebrates such as worms, molluscs, insects and crustaceans (Garnett *et al.* 2011). There is no habitat for these species in the proposed gas pipeline area. The results are attached as Appendix 2 (EPBC) and Appendix 4 (DBCA) respectively.

It is important to note that the EPBC PMST is not entirely based on point records but also on broader information (e.g., bioclimatic distribution models), whereas the DBCA threatened fauna database is solely based on point records. Consequently, the results of the EPBC PMST are in some cases less accurate, particularly at a local scale. As a result, the EPBC PMST can include species that do not occur in the study area because, for example, there is no habitat available or they are now known to be locally extinct.

With the above species removed from the database searches, 14 fauna species of conservation significance present in the database searches are considered, including their likelihood of occurrence in the Project area and the potential impact of the Project (Table 3, Figure 6).

As the Project area is located within the medium priority survey area for the Night Parrot (*Pezoporus occidentalis*) (DPAW 2017), and potential range of the Arid Bronze Azure Butterfly (*Ogyris subterrestris petrina*), these are included in Table 3.

The Malleefowl (*Leiopoa ocellata*), Peregrine Falcon (*Falco peregrinus*) and Northern shield-backed Trapdoor Spider (*Idiosoma clypeatum*) could potentially occur in native vegetation surrounding the Project, given the proximity of DBCA records and potential suitable habitat.

No evidence of these three species has been recorded in previous survey work completed at CNO.

Table 3: EPBC PMST and DBCA records of fauna of conservation significance recorded within 100km of CNO

SPECIES	CONSERVATION STATUS		LIKELIHOOD OF OCCURRENCE/POTENTIAL IMPACT
	DCCEEW*	DBCA**	
REPTILES	DCCLLW	DUCK	
Liopholis kintorei Great desert skink			The Western Spiny-tailed Skink population has declined significantly as a result of land-clearing and currently occurs in small isolated subpopulations and is found on rocky outcrops, hills and woodlands (Chapple <i>et al.</i> 2019). Record from 1964 at Wanjarri Nature Reserve >20 km to the north of CNO.
	VU	VU	As there are no rocky habitats in the proposed clearing area, this species is not expected to occur.
AVIFAUNA			
Amytornis striatus striatus (Striated Grasswren-sandplain)		P4	Closest records in Wanjarri Nature Reserve ~16 km to the north of the proposed clearing. This species prefers spinifex habitat with or without lows shrubs, on sandy or loamy plains (Johnstone and Storr 2004). This habitat is not located in the Project area; thus, it is considered highly unlikely to occur.
Falco hypoleucos (Grey Falcon) *1	VU		The species frequents timbered lowland plains, particularly <i>Acacia</i> shrublands that are crossed by tree-lined water courses (Garnett <i>et al.</i> 2011). No local records – record from EPBC PMST. The species is considered unlikely to occur, however, given the mobility of this species and the linear nature of the proposed clearing, it is considered the proposed clearing would have no impact on this species.
Falco peregrinus (Peregrine Falcon)		OS	The Peregrine Falcon is an uncommon but wide-ranging bird across Australia (Barrett <i>et al.</i> 2003). It occurs mainly along rivers and ranges as well as wooded watercourses and lakes and nests primarily on cliffs, granite outcrops and quarries. The species could occur, but given the mobility of the species and the linear nature of the proposed clearing, it is not expected to be impacted.
Leipoa ocellata (Malleefowl)	VU	VU	Malleefowl prefer habitat with a dense canopy and an open ground layer in which they can construct their mounds (Benshemesh 2007). The species may occur in areas surrounding the Project, however, there has been no evidence of Malleefowl (mounds or tracks) recorded during fauna survey work completed at CNO. Several records of this species within 20-40 km of CNO.
Polytelis alexandrae (Princess Parrot)	VU	P4	There is one record of this species in the DBCA threatened fauna database from 1964 at Wanjarri Nature Reserve. 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 that usually consist of scattered stands of Eucalyptus (including E. gongylocarpa, E. chippendalei and mallee species), Casuarina or Allocasuarina trees; and understorey of shrubs such as Acacia (especially A. aneura), Eremophila, Grevillea, Hakea and Senna; and a ground cover dominated by Triodia species (Garnett & Baker 2021). This habitat is not located in the Project area, thus, this species is considered unlikely to occur.
Pezoporus occidentalis (Night Parrot) *1, ***	EN	CR	This species was present only in the EPBC PMST database (there were no records in the DBCA threatened fauna database), and there are limitations with this PMST as outlined above. Sightings of the Night Parrot in WA comes from the Pilbara (12 April 2005) at a well near the Fortescue Marshes (Davis & Metcalf 2008), and near Matuwa (Lorna Glen), which is about 160 km north-east of Wiluna, in 2009 (Hamilton et al. 2017). There has been a more recent sighting just few years ago south east of Balgo in the Great Sandy Desert, but no exact location has been made public or published.

SPECIES CONSERVATION STATUS		TION	LIKELIHOOD OF OCCURRENCE/POTENTIAL IMPACT
	DCCEEW*	DBCA**	
			The Night Parrot is a highly elusive nocturnal ground dwelling parrot found in the arid and semi-arid zones of Australia (DoE 2020c). The broad habitat requirements of night parrots include areas of old-growth spinifex (<i>Triodia</i>) for roosting and nesting, together with foraging habitats that are likely to include various native grasses and herbs, and may or may not contain shrubs or low trees (DPaW 2017). These may be in expanses or isolated patches, but sometimes associated with other vegetation types, such as dense chenopod shrubs. As the Project area contains no spinifex, this species is considered unlikely to occur.
MAMMALS			
Dasycercus blythi (Brush-tailed Mulgara)		P4	There closest record is located ~8 km northwest of CNO in spinifex grasslands. The Brush-tailed Mulgara is associated mostly with hummock (spinifex) grasslands but also uses other vegetation types (often sandplains, grasslands and woodlands) when mixed with or adjacent to hummock grasslands. It is mainly nocturnal and shelters during the day in excavated burrow systems (Woinarski <i>et al.</i> 2014). There is no preferred habitat for this species in the Project area, therefore it is unlikely to occur.
Dasyurus geoffroii (Chuditch) *1	VU		No local records - Listed only in EPBC search results. The Chuditch previously occurred throughout arid and semi-arid Australia, but is now primarily restricted to the south west of WA, predominantly the Jarrah Forest and nearby areas. Though, there are small, isolated subpopulations that persist in the Avon Wheatbelt, eastern Goldfields Woodlands and Mallee and in Fitzgerald National Park and Ravensthorpe Range (Woinarski et al. 2014). Considered unlikely to occur.
Leporillus conditor Greater Stick-Nest Rat	CD	VU	Known to be regionally and locally extinct, thus, not discussed further. DBCA record in Wanjarri Nature Reserve (2019), ~16 km to the north of the proposed clearing.
Petrogale lateralis lateralis Black-flanked rock-wallaby)	EN	EN	The Black-flanked Rock-wallaby was formerly widespread, but patchily distributed throughout most of WA south of the Kimberley, but has greatly declined and is restricted to the best habitat in a number of locations (Pearson & Kinnear 1997, Woinarski <i>et al.</i> 2014). This species requires daytime shelter in heavily shaded locations in rocky areas, caves, cliffs, screes and rockpiles. They feed on grasses, forbs, shrubs and sometimes seeds and fruits (Woinarski <i>et al.</i> 2014). Closest records are >60 km northwest of CNO. There are no rocky habitats in the proposed clearing area, thus, this species is not expected to occur.
Sminthopsis longicaudata (Longtailed Dunnart)		P4	This species prefers rocky habitats that support low open woodlands or <i>Acacia</i> shrublands with an understorey of Spinifex (Burbidge <i>et al.</i> 2008). Closest record is >70 km southwest of CNO. As there are no rocky habitats in the proposed clearing area, this species is considered unlikely to occur.
Sminthopsis psammophila (Sandhill Dunnart) *1	EN	EN	No local records - Listed only in EPBC search results. Inhabits spinifex sandplains on deep yellow sands, with a diverse shrubby understorey. Currently only known from the southern Great Victoria Desert. There is no preferred habitat (spinifex) for this species in the Project area, therefore it is considered unlikely to occur.
INVERTEBRATES			
Idiosoma clypeatum (Northern shield-backed trapdoor spider)		P3	This species could potentially occur and has a scattered distribution through the Yalgoo and Murchison Bioregions. As it has a known extent of occurrence of over 120,000 km², it is not considered to be a short-range endemic species by the definition of Harvey (2002) and the small size of the Project is not expected to impact the conservation significance of this species (if it did occur).

SPECIES CONSERVATION STATUS		TION	LIKELIHOOD OF OCCURRENCE/POTENTIAL IMPACT
	DCCEEW*	DBCA**	
Kwonkan moriartii (Northern shield- backed trapdoor spider)		P2	Records from 1962 at Kathleen Valley Station ~12 km to the north of CNO. Known from only this location. Species is considered highly unlikely to occur in the proposed clearing area.
Ogyris subterrestris petrina (Arid Bronze Azure Butterfly) ***	CR	CR	The Arid Bronze Azure Butterfly (ABAB) is known from only two existing subpopulations in WA. One occurs at Barbalin Nature Reserve (BNR), and at a second site ~100 km from Barbalin (DBCA 2020). There was a population at Lake Douglas, 12 km south west of Kalgoorlie, however, this population is reported to have become extinct in about 1993 as no ABAB have been recorded there since then (CA 2015, DBCA 2020).
			The species (and host ant) preferred habitat is woodland with smooth barked eucalypts – the Project area is dominated by Mulga shrubland. This habitat is not located in the Project area, thus it is highly unlikely to occur.

^{* –} listed under the Environmental Protection and Biodiversity Conservation Act 1999 – rankings provided in Appendix 1

^{** -} under *Biodiversity Conservation Act 2016 - -* rankings provided in Appendix 1

^{***}DBCA search results indicate "the search area is within the potential range of the arid bronze azure butterflies host ant and within the high and medium priority survey areas for night parrots"

^{*1 –} from the EPBC PMST results

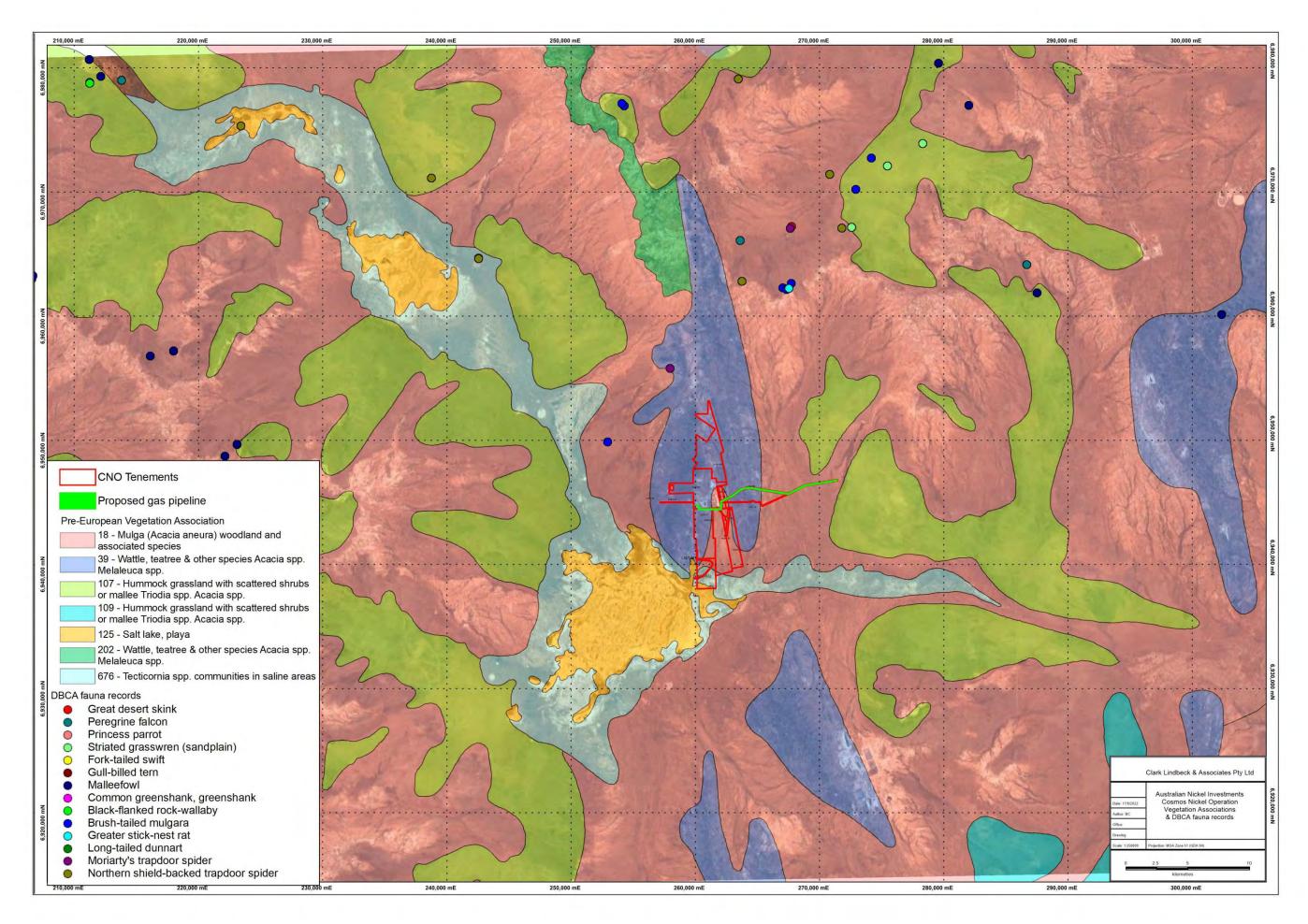


Figure 6: DBCA fauna records in CNO and surrounding region

4.4 THREATENED COMMUNITIES

No TEC's pursuant to Commonwealth or State legislation are located within the proposed clearing area.

The PEC/TEC search (DBCA, 2019) revealed the central section of the proposed gas pipeline lies within the Priority 1 PEC (and buffer zone) 'Violet Range (Perseverance Greenstone) vegetation complexes (banded ironstone formation) (Figure 7). This buffer has a mapped extent of over 19,000 hectares and the PEC a known extent over 14,000 hectares. The pipeline comprises <0.2% of the total area of the PEC.

The vegetation located within this section of the proposed gas pipeline is not BIF but does contain reference to ironstone and quartz rocks for the A1 and S2 vegetation groups (Figure 3).

Three Priority 1 PEC's associated with unique stygofauna communities in calcrete are located around the CNO, Lake Miranda: Lake Miranda West, Lake Miranda East and Yakabindie (Figure 7).

4.5 ENVIRONMENTALLY SENSITIVE AREAS AND CONSERVATION RESERVES

The proposed clearing area does not lie within or contain any ESA's or Conservation Reserves (DWER, 2022).

The Wanajarri Nature Reserve (southern boundary) is located approximately 10 km north of the eastern edge of the pipeline (Figure 7).

4.6 VEGETATION TYPE AND EXTENT

Based on Beard (Shepherd *et al.* 2002), two vegetation associations occur in the proposed clearing areas:

- 18: Mulga (Acacia aneura) woodland and associated species;
- 39: Shrublands; mulga scrub (Wattle, teatree and other species Acacia sp, Melaleuca sp).

These associations have >97% of their original extent remaining (Table 4).

Freshwater Creek, an ephemeral drainage line is located east of M36/371 and crosses L36/194 and L36/199. The vegetation in this area is not considered to be riparian vegetation based on the vegetation groups mapped which have described the vegetation as:

- Mattiske (S7) Open shrubland of *Eremophila fraseri* subsp. *galeata* and *Acacia tetragonophylla* with occasional emergent *Acacia* species over *Senna artemisioides* subsp. *helmsii x oligophylla* and *Solanum lasiophyllum*.
- PEK /Botanica Mid sparse shrubland of Acacia pteraneura, A tetragonophylla and Eremophila galeata over low sparse shrubland of Ptilotus obovatus subsp. obovatus and Solanum lasiophyllum on low isolated clumps of Aristida contorta and Sclerolaena densiflora on washplains.

Table 4: Current extent of regional vegetation associations

Beard Vegetation Association	Pre-European Extent (Ha)	Current Extent (Ha)	Pre-European extent remaining (%)
18	10,269,896	10,234,838	99.66
39	711,328	701,934	98.68

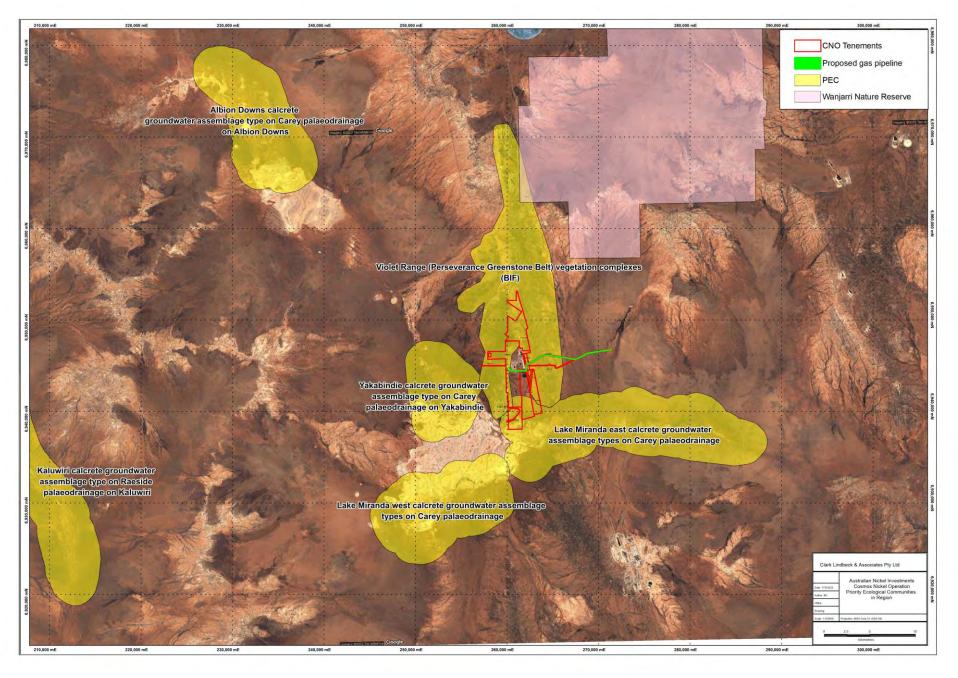


Figure 7: Location of PEC at CNO and in region

5 CLEARING PERMIT PRINCIPLES

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

The Project lies within the central area of the Eastern Murchison (MUR1) Interim Biogeographic Regionalisation for Australia (IBRA) Sub Region of the Murchison Biogeographic Region which totals over 7.8 million hectares (Cowan, 2001).

Based on Beard (Shepherd *et al.* 2002), two vegetation associations occur in the proposed clearing areas:

- 18: Low woodland; mulga (Acacia aneura)
- 39: Shrublands; mulga scrub.

These vegetation associations are well represented, with more than 98% of pre-European levels of native vegetation remaining within the State and Bioregion (Government of Western Australia, 2019; GIS Database).

Eight vegetation groups were mapped by Mattiske (2006) along the gas pipeline corridor and no DRF or Priority flora species were recorded, or, have ever been recorded at CNO.

The Project will not significantly reduce the extent of the local vegetation communities recorded at the Project. It is expected that all fauna habitats within the proposed gas pipeline corridor are common within the locality and occur contiguously with the same habitat types outside of the clearing area.

The overall fauna assemblage within the study area would not be unique and would also occur outside of the study area.

Based on the above, the proposed clearing envelope is not considered to comprise a high level of biological diversity. All vegetation groups are represented extensively outside the proposed clearing area and the proposed clearing is not expected to reduce the biodiversity of the area.

Based on the above, the proposed clearing is not at variance to this Principle.

(b) 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.

A search of current available flora and fauna databases identified a number of conservation significant species within the local area (20 km radius) (DBCA, 2022b):

- Trapdoor spider (Kwonkan moriartii P2). The Trapdoor spider (Kwonkan moriartii) is a relic collection from 1962. There have only been two individuals of this species recorded from the entire Eastern Murchison subregion, and collection data suggests that herbaceous graminoids and/or sparse hummock grassland is the preferred habitat which is not located in the proposed clearing area (DPaW, 2018).
- Brush-tailed Mulgara (*Dasycercus blythii* P4). Recorded in spinifex sandplain and this habitat is not located in the proposed clearing area.

No evidence of conservation significant fauna has been recorded in fauna survey work completed at CNO to date.

As the vegetation groups, part of the extension to the overall clearing area, are consistent with those previously identified, no critical habitat types are expected to be impacted.

Given the mobility of fauna species and the lineal nature of the proposed clearing, it is considered the proposed clearing would have no impact on the conservation significance of fauna species.

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All fauna habitats within the proposed clearing envelope are common in the local area and occur contiguously with the same habitat types outside of the proposed clearing area.

In relation to SRE species, the habitats identified within the study area are typical of those occurring in the wider subregion and they are also contiguous with very similar habitat extending beyond the study area.

Using habitat as a surrogate to infer wider distributions, if an SRE taxa were to occur, they would not be restricted solely to the survey area, as there are no geomorphological or habitat attributes that would suggest a high risk of species level distributions being restricted to the scale of the survey area.

ANI considers that the proposed clearing area is not necessary for the on-going maintenance of any significant fauna habitat and that equal or higher quality vegetation and fauna habitats exist throughout the surrounding area (i.e. with less disturbance).

In addition, the proposed clearing will not significantly reduce the extent of flora or fauna habitats at the Project or in the region. Given the above, the proposed clearing will not be at variance to this Principle.

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

No plant taxa located in the proposed clearing area are gazetted as Threatened under the EPBC Act or BC Act.

No Priority flora has been recorded at the Project.

Given the above, the proposed clearing will not be at variance to this Principle.

(d) 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).

No TEC's are listed under the Commonwealth *Environmental Protection and Biodiversity Conservation Act 1999* or endorsed by the Western Australian Minister for the Environment for the Project area.

Therefore, the proposed clearing is not at variance to this Principle.

(e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.

The proposed clearing comprises two Beard Vegetation Associations all of which have approximately 98% of their pre-European extent remaining.

Given the above, the vegetation proposed to be cleared cannot be considered significant as a remnant in an area that has been extensively cleared.

Therefore, the proposed clearing will not be at variance to this Principle.

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

A series of small drainage lines trend east and south-east from rocky hills to the west, joining a main north-south drainage line known as Freshwater Creek. Freshwater Creek becomes less distinct toward the south where surface water flows are less confined within channels and flood across a wider plain.

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Surface drainage is largely via sheet flow with surface water flow only following periods of heavy rainfall.

Ephemeral drainage lines are present in the overall clearing area and surface runoff within these drainage lines only flows following heavy rainfall associated with thunderstorms or cyclonic activity. The vegetation in these drainage lines is not considered to be riparian vegetation.

There is, therefore, no vegetation growing in association with a water course or wetland. The proposed clearing is not at variance to this Principle.

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

The clearing permit area is broadly mapped as the Violet and Jundee land systems according to Pringle *et al.*, 1994.

The proposed clearing of 59.1 ha of vegetation is not likely to lead to land degradation issues such as salinity, water logging or acidic soils and therefore is not at variance to this Principle.

(h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an

There are no conservation or nature reserves within the Project area.

The Wanjarri Nature Reserve is approximately 12 km north east of the proposed clearing area.

impact on the environmental values of any adjacent or nearby conservation area.

Given the distance to the nature reserve, the proposed clearing will not have any impact on the environmental values of the area. The proposed clearing, therefore, is not at variance to this Principle.

(i) 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.

Surface water in the Project area is sourced from direct precipitation and surface runoff following rainfall events. The Murchison area often receives considerable rainfall from degenerating cyclonic depressions from the northern parts of the State. However, overall, the mean annual rainfall is only 266.2 mm.

Evaporation rates in the region vary from 3000-3200 mm annually.

With such high annual evaporation rates, there is little surface flow during normal seasonal rains. Given the low annual rainfall and high evaporation rate there is expected to be minimal rainfall recharge that would impact the groundwater levels or the quality of the groundwater in the local region.

There is no surface water of significance, large drainage lines, lakes or swamps in or in close proximity to the proposed clearing area. Drainage lines at CNO are ephemeral and only flow following significant rainfall.

The area proposed to be cleared does not fall within a Public Drinking Water Source Area (PDWSA) or PDWSA Protection Zone (www.dow.wa.gov.au).

The clearing of 59.1 ha of native vegetation is not likely to cause deterioration in the quality of surface or groundwater and, therefore, the proposed clearing is not at variance to this Principle.

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

The area proposed to be cleared is surrounded by native vegetation. The climate of the Eastern Murchison subregion is arid, with a variable bimodal rainfall that usually falls in winter (Cowan, 2001). Annual average rainfall is only 266.2 mm with little surface flow during normal seasonal rains.

As there is little surface flow during normal rains, the proposed clearing of 59.1 ha is not likely to cause or exacerbate the incidence or intensity of flooding. Therefore, the proposed clearing is not at variance to this Principle.

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APPENDICES

Cosmos	Gas	Pineline	deskton	flora-	fauna	assessment
CUSITIUS	Gus i	ribellile	UESKLUD	nonu-	Iuuiiu	ussessilielii

Appendix 1: Conservation Rating Definitions



CONSERVATION CODES

For Western Australian Fauna and Flora

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

The Wildlife Conservation (Specially Protected Fauna) Notice 2018 and the Wildlife Conservation (Rare Flora) Notice 2018 have been transitioned under regulations 170, 171 and 172 of the Biodiversity Conservation Regulations 2018 to be the lists of Threatened, Extinct and Specially Protected species³ under Part 2 of the Biodiversity Conservation Act 2016.

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

T Threatened species

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

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

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

The assessment of the conservation status of threatened species is in accordance with the BC Act listing criteria and the requirements of Ministerial Guideline (Number 1) and Ministerial Guideline (Number 2) that adopts the use of the International Union for Conservation of Nature (IUCN) Red List of Threatened Species Categories and Criteria⁴, and is based on the national distribution of the species.

CR Critically endangered species

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

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

Examples of use:

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

EN Endangered species

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

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

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

VU Vulnerable species

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

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

Examples of use:

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

Extinct species

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

EX Extinct species

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

Examples of use:

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

EW Extinct in the wild species

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

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

SP Specially protected species

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

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

MI Migratory species

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

Migratory species include birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA)⁵, China (CAMBA)⁶ or The Republic of Korea (ROKAMBA)⁷, and fauna subject to the *Convention on the Conservation of Migratory Species of Wild Animals* (Bonn Convention)⁸, an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.

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

CD Species of special conservation interest (conservation dependent)

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

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

Examples of use:

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

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

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

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

Examples of use:

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

P Priority species

Priority is not a listing category under the BC Act.

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

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

Species that are adequately known, meet criteria for near threatened, or are rare but not threatened, or that have been recently removed from the threatened species list or conservation dependent or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

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

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

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

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

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

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

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

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

Examples of use:

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

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

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

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

Examples of use:

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

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

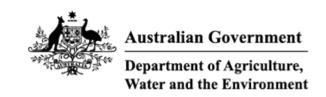
- (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection but could be if present circumstances change. These species are usually represented on conservation lands.
- (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as a conservation dependent specially protected species.
- (c) Species that have been removed from the list of threatened species or lists of conservation dependent or other specially protected species, during the past five years for reasons other than taxonomy.
- (d) Other species in need of monitoring.

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

- ² Species includes all taxa (plural of taxon a classificatory group of any taxonomic rank, e.g. a family, genus, species or any infraspecific category i.e. subspecies or variety, or a distinct population).
- ³ Schedules are not referred to when stating the listing status of threatened, extinct or specially protected species under the BC Act. See the examples provided under each listing category.
- ⁴ Western Australia has assigned species to threat categories using the *IUCN Red List of Threatened Species Categories and Criteria* since 1996 (referencing all criteria). At the national level, threatened species listings under the *Environment Protection and Biodiversity Conservation Act* 1999 (EPBC Act) reference only some of the IUCN criteria (http://www.environment.gov.au/biodiversity/threatened/nominations/forms-and-guidelines).
- ⁵ JAMBA first included in the WA migratory species list in 1980.
- ⁶ CAMBA first included in the WA migratory species list in 2010.
- ⁷ ROKAMBA first included in the WA migratory species list in 2010.
- 8 Bonn Convention (Birds) first included in the WA migratory species list in 2015.

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

Appendix 2: EPBC PMST Results



EPBC Act Protected Matters Report

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

Report created: 02-Sep-2022

Summary

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

Caveat

Acknowledgements

Summary

Matters of National Environment Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	8
Listed Migratory Species:	7

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Lands:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	9
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	1
Regional Forest Agreements:	None
Nationally Important Wetlands:	None
EPBC Act Referrals:	4
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Listed Threatened Species		[Res	source Information]
Status of Conservation Dependent and E Number is the current name ID.	xtinct are not MNES unde	er the EPBC Act.	
Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat known to occur within area	In feature area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat likely to occur within area	In feature area
Polytelis alexandrae Princess Parrot, Alexandra's Parrot [758]	Vulnerable	Species or species habitat may occur within area	In feature area
MAMMAL			
Dasyurus geoffroii			
Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sminthopsis psammophila			
Sandhill Dunnart [291]	Endangered	Species or species habitat may occur within area	In buffer area only
PLANT			
Atriplex yeelirrie			
[88538]	Endangered	Species or species habitat known to occur within area	In buffer area only
REPTILE			

Great Desert Skink, Tjakura, Warrarna, Mulyamiji [83160]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Listed Migratory Species		[Res	source Information]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In buffer area only
Migratory Terrestrial Species			
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos			
Common Sandpiper [59309]		Species or species habitat may occur within area	In feature area
Calidris acuminata			
Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area	In feature area
Calidris melanotos			
Pectoral Sandpiper [858]		Species or species habitat may occur within area	In feature area
Charadrius veredus			
Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area	In feature area

Threatened Category

Presence Text

Buffer Status

Other Matters Protected by the EPBC Act

Scientific Name

Liopholis kintorei

Listed Marine Species			[Resource Information]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area	In feature area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In buffer area only
Calidris acuminata			
Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area	In feature area
<u>Calidris melanotos</u>			
Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area	In feature area
Chalcites osculans as Chrysococcyx os	<u>culans</u>		
Black-eared Cuckoo [83425]		Species or species habitat known to occur within area overfly marine area	In feature area
Charadrius veredus			
Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area overfly marine area	In feature area
Merops ornatus			
Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area overfly marine area	In feature area

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Wanjarri	Nature Reserve	WA	In buffer area only

EPBC Act Referrals			[Resour	rce Information]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Lake Maitland Uranium Project	2009/5220	Controlled Action	Completed	In buffer area only
Yeelirrie Uranium Mine	2009/4906	Controlled Action	Post-Approval	In buffer area only
Not controlled action				
Clearing for Mt Keith Satellite Project, WA	2017/8001	Not Controlled Action	Completed	In buffer area only
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area

Caveat

1 PURPOSE

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

The report contains the mapped locations of:

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

2 DISCLAIMER

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

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

3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

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

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

4 LIMITATIONS

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

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

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

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

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

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

Acknowledgements

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

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

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

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

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Appendix 3: DBCA flora search results

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Description of the property	2 120.989 -28.327 Acacia sp. Marshall Pool (G. Cockerton 3024)	3 Site 12, Marshall Pool, 70 km N of Leonora		-28.327 120.989 MAN	0 20/07/199
1 10 50 50 50 50 50 50	3 120.993 -28.3319 Acacia sp. Marshall Pool (G. Cockerton 3024)	3 On creek Marshall Pool, 70 km N of Leonora	Near Hemigenia exilis population.	-28.3319 120.993 MAN	0 20/07/199
1 10 10 10 10 10 10 10	4 121.066 -28 Acacia sp. Marshall Pool (G. Cockerton 3024)	3 Greenston 5 km NE of No. 5 Well, Weebo Station	Open scrub.	frequent28 121.066 AUTO	3 9/06/198
1 171 3700	5 121.011 -28.3174 Acacia sp. Marshall Pool (G. Cockerton 3024)	3 Rocky bass Site 33, Marshall Pool, ca 70 km N of Leonora on Leinster Road	Low shrubland dominated by Acacia aneura with Eremophila forrestii, Hybanthus fl	-28.3174 121.011 MAN	0 18/07/199
March 1.5	6 120.729 -27.447 Anacampseros sp. Eremaean (F. Hort, J. Hort & J. Shanks 3248)	1 In depress Yakabindie Station, Sir Samuel block		-27.447 120.729 GPS	1 19/02/200
March 1.5	7 119.741 -27.9033 Angianthus prostratus	3 saline clay 41 ml N of Bulga Downs		-27.9033 119.741 AUTO	3 24/09/197
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1982 2350 miles week					1 24/09/200
10 10 10 10 10 10 10 10		Medium c Yeelirrie Station, 20 km NW of Yeelirrie Homestead	Low Atriplex shrubland.		1 16/09/200
19 19 19 19 19 19 19 19	15 119.9 -27.1792 Atriplex yeelirrie T	Medium c Yeelirrie Station, c. 70 km SW of Wiluna	Low Atriplex shrubland.	-27.1792 119.9 GPS	1 16/09/200
10 10 10 10 10 10 10 10	16 120.185 -27.3349 Atriplex yeelirrie T	Light to m Eastern population, at the eastern end of Yeelirrie Station, near Albion Downs S	Associated species: Lycium australe.	100 + plants27.3349 120.185 GPS	1 3/12/200
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Part	18 120.199 -27.324 Atriplex yeelirrie T	Flat, seaso Yeelirrie Station near Albion Downs Station, south-east Snakebore population. Pr	Atriplex shrubland.	dominant shrub27.324 120.199 GPS	1 16/04/203
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1 10 10 10 10 10 10 10	· · · ·		Chyo Low Achipies on abiana on officence day within the calcrete our Landscape.		1 18/05/203
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30 200 20 237					1 22/08/202
39.7131 77.320 Suprey systems F. Fist, seady Control Statins own strike (all and strike) F. Sty, seady Control Statins own strike) F. Sty, seady Control Statins own strike) F. Sty, seady Control Statins, forms Wideplife are 3 of October (by Republicito, 78 in No.M of the Seady Statins own strike) F. Sty, seady Control Statins, forms Wideplife are 3 of October (by Republicito, 78 in No.M of the Seady Statins own strike) F. Sty, seady Control Statins, forms Wideplife are 3 of October (by Republicito, 78 in No.M of the Seady Statins own strike) F. Sty, seady Control Statins, forms Wideplife are 3 of October (by Republicito, 78 in No.M of the Seady Statins own strike) F. Sty, seady Control Statins, forms without plants of the Seady Statins own strike (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Statins own strike (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Republicity (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Republicity (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Republicity (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Republicity (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Republicity (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Republicity (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Republicity (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Republicity (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Republicity (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Republicity (by Republicity) F. Sty, seady Control Statins, forms without plants of the Seady Republicity (by Republicity) F. Sty, seady Control Statins, for the Seady Republicity (by Republicity) F. Sty, seady		Medium c Yeelirrie Station, 20 km NW of Yeelirrie Homestead	Low Atriplex shrubland.		1 18/09/200
40 1190 77-1185 Apriles yealing 7 100 years of the Section from the Social periors of Company Population, 30 in New 8 of the Britain Section will warried special associated 77-1185 119-50 (Feb. 1 119-100 119-	38 120.205 -27.3174 Atriplex yeelirrie T	Light to m Eastern population, at the eastern end of Yeelirrie Station, near Albion Downs S	Atriplex shrubland.	-27.3174 120.205 GPS	1 18/11/200
41 193002 -73.935 / Arrighes venime	39 120.211 -27.3242 Atriplex yeelirrie T	Flat, seaso Yeelirrie Station near Albion Downs Station, south-east Snakebore population. Pr	Atriplex shrubland.	dominant shrub27.3242 120.211 GPS	1 16/04/202
118.902 27.1185 3.1879 cycling 7.1878 cycling 7.1878 cycling 7.1878 cycling 7.1878 cycling	40 119.9 -27.1838 Atriplex yeelirrie T	Silty sand. Yeelirrie Station, former Stockpile area S of Orebody Population, 20 km NW of Ye	Rehabilitation within Acacia ayersiana woodland.	-27.1838 119.9 GPS	1 21/08/203
2 118.902 73.100 2.7.100 2	41 119.902 -27.1857 Atriplex yeelirrie	Silty sand, Yeelirrie Station, former Stockpile area S of Orebody Population, 20 km NW of Ye	Rehabilitation within Acacia aversiana woodland.	-27.1857 119.902 GPS	1 21/08/203
119902 271779 (Implex yearline)			,		1 20/08/202
46 1199 37 1886 Artigues yearline T Silly and Peterin Sation, Former Social person is of Orespon Population, 20 x m N or Y or Not Artificial Artigues shrubband. 46 1193 89 37 1886 Artigues yearline T P Resource Feering Sation, N and Ball Billion Project Area Sile 1 Artigues shrubband. 47 104 104 104 104 104 104 104 104 104 104			,		1 22/08/202
46 119396 27,1356 Airplesy eyelinter T Sitt, spean/evelinter Station, eastern Besseline population, Proper Area Ste 1 Atriples shrobland. dominant shrub. 27,1856 119,925 698 1 1 1 1 1 1 1 1 1					1 21/08/203
4 11.0897 72.1789 Interplace yearlieries T Int. seasof verlieries Station, W and GPP Billion Project Area Site Afrigate shrubband 27.1789 2010.019.0155 3 48 110.8897 27.179 Arripher yearlieries T Int. seasof verlieries Station, W and GPP Billion Project Area Site Afrigate shrubband 27.1781 11.0897 655 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 27.179 11.0897 675 3 11.0897 675			·		
120.192 27.273/23/ Atriples yeelfrier T Uight to mity reading of Liab Manada, 12 mm St of Yeelfrier Homestead Arrigines Archiband. 27.273/23/ 120.192 (075 1 14.91 120.199 27.273-26.2 Atriples yeelfrier T Rat, seary/feeting Station, each Bloom Downs Station, south-east Snatebore population. P Arrigines Archiband. 40minant strints. 27.273-24. 120.199 (075 1 11.91 120.199 120.2 120.					1 15/04/203
48 19.897 -27.177 Artiples yealmine 1 Fat, sead realmin Satistion, when de Britton Project Area Ste 1 Artiples Strukhland, dominant shruk, 27.316 30.199 675 1 5 1 19.907 27.3775 Artiples yealmine 7 Fat, sead realmin Satistion, as 7.239 km SW (20) degrees of WI 5 1 19.907 27.3775 Artiples yealmine 7 Fat, sead realmin Satistion, as 7.239 km SW (20) degrees of WI 5 1 19.907 27.3775 Artiples yealmine 7 Fat, sead realmin Satistion, as 7.239 km SW (20) degrees of WI 5 10.007 27.340 Artiples yealmine 7 Fat, sead realmin Satistion, as 7.239 km SW (20) degrees of WI 5 10.007 27.340 Artiples yealmine 7 Fat, sead realmin Satistion, as 7.239 km SW (20) degrees of WI 5 10.007 27.340 Artiples yealmine 7 Fat, sead realmin Satistion, as 7.239 km SW (20) degrees of WI 7 70.000 7 70.000 7 7 70.000 7 7 70.000 7 7 70.000 7 7 70.000 7 7 70.000 7 7 70.000 7 7 7 7 7 7 7 7 7					1 15/04/202
40 10.199 27.778 Arriples yealering F Fift, sead/yealerine S state in our part Mont Downs Station, South-east Snakebor population. Pr Arriples Attribution. 50 11.992 27.1816 27.1816 2			Atriplex shrubland.		1 3/12/200
Section 1990 27.175 Arriphe yealerine T Selfmulth Yealerine, Sels in Sof William Shrubland 27.177 Arriphe yealerine T Behability Eginger Claims Survey, Yealerine Station, ca. 72.39 km SSW (200 degrees) of Williams 1990 27.45 km Stropparmeline macrospora 3 Red brown/Stite 7, Wanjarrin Nature Reserve Thicket, Low Scrub A, Open Low Scrub B, Open Dwarf Scrub D, 1992 1					1 15/04/201
1992 7.71.816 Arrigher yealirine T Rehabilitar Viguar Calcerdes Survey, Yealire Station, cp. 7.23 km SSW [203 degrees] of William Stations of the Station 1.72.81 km St	49 120.199 -27.3245 Atriplex yeelirrie T	Flat, seaso Yeelirrie Station near Albion Downs Station, south-east Snakebore population. Pr	Atriplex shrubland.	dominant shrub27.3245 120.199 GPS	1 16/04/203
Section Sect	50 119.902 -27.1775 Atriplex yeelirrie T	Self mulch Yeelirrie, 85 km S of Wiluna	Shrubland.	-27.1775 119.902 GPS	1 22/05/200
3 120.667 27.45 Austropamelian macrospora 3 Red brows 18.7 Austropamelian macrospora 27.962 120.667 MAN 0 0 0 0 0 0 0 0 0	51 119.921 -27.1816 Atriplex yeelirrie T	Rehabilital Yilgarn Calcrete Survey, Yeelirrie Station, ca. 72.39 km SSW (203 degrees) of Wi		-27.1816 119.921 GPS	1 26/08/202
Standard			Thicket, Low Scrub A, Open Low Scrub B, Open Dwarf Scrub C, Open Dwarf Scrub D.		0 31/08/199
Section Sect					0 31/08/199
55 120,852 28,137 Backeas ps. Smidstone (C.A. Gardner s.n., 26 Oct. 1963) 3 Red sand, C. a 6.5 km SW of White Wells, which is 26 km SW of White Wells, white Wells			, ,		0 26/10/199
56 120.077 27.234 Dossieae remeae 3 Celirier Station, Murchison 590 plants 27.234 120.071 GFS 1 11.567 11.592 127.1519 Bossieae remeae 3 Compact Yeelirier Station, Murchison 27.335 11.932 UNK 2 11.595 11.595 27.234 27.13619 11.595 27.234 27.13619 11.595 27.2345 11.595 27.2345 11.595 27.2345 11.595 27.2345 27.23			Low Woodland A dominated by Eucalyntus kingsmillii and E. gongylocarna, over mix		1 24/06/200
57 119.921 27,1619 Bossieae aremaea 3 Compact Syelimic Station 27,1619 119.921 UNK 2 2 2 2 2 2 2 2 2			2011 1100 Carlot A Communication by Euclarypeus kingsimini and E. gongyiocarpa, Over Illix		1 12/05/200
58 119.567 27.8 Bossiaea eremaea 3 Flat, red. \$\take Mason Station, 7.5 km S along fenceline from O'Connor Bore Open shrubs over Triodia, Eremophila sp. o. 1 m., Grevillea open scrub to 3 m. uncommon. -27.8 119.567 UNK 3					
59 120.656 27.4386 Bossiaea eremaea 3 Co-locate C. 4 km SSE of Wanjarri Nature Reserve shed or outstation, along the gas pipelin Triodia basedowii low hummock grassland with emergent Eucalyptus gnagylocarpa, E 27.4386 120.656 CPS 1 1 121.283 28.1333 Calytrix praceipus 3 Neutrine Station, Murchison 400 plants. 27.173 131.233 MAN 3 3 121.283 MAN			Open chruhe quar Triadia Eromenhila en ta 1 m Candilla a contra c		2 19/03/200
60 119.931 27.173 30 30 30 30 40 30 30 50 30 30 50 30 3					3 23/05/199
61 121.283 28.1333 Calytrix praecipua 3 On breaka 24 km E of Lehman Well, vacant Crown Land E of Eristoun Station, 500 metres W o 6 121.031 27.1335 (Tartystylis centralis 3 Low plain 12 27.1345 (Tartystylis centralis 4 Low woodland bordering Lake Maitland. Growing with Casuarina pauper (Los woodland bordering Lake Maitland. Growing with Casuarina pauper (Low woodland bordering Lake Maitland. Growing with Casuarina pauper (Low woodland bordering Lake Maitland. Growing with Casuarina pauper (Low woodland bordering Lake Maitland. Growing with Casuarina pauper (Low woodland of Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper (Low woodland of Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper (Low woodland of Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper woodland of Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper woodland of Casuarina pauper					1 28/03/203
Casuarina pauper woodland of Casuarina pauper to 6 m tall over Thicket of Eremophila over Ope Spants in 500 m area ii -27.1335 121.013 GPS 1 12.033 27.1387 Cartystylis centralis 3 Sandy day Near Lake Maitland, c. 105 km SE of Willuna Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper -27.1381 121.033 GPS 1 12.033 Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper -27.1381 121.033 GPS 1 12.033 Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper -27.1381 121.033 GPS 1 12.033 Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper -27.1381 121.033 GPS 1 12.033 Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper -27.1381 121.033 GPS 1 12.033 Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper -27.1381 121.033 GPS 1 12.033 Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper -27.1381 121.033 GPS 1 12.033 Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper -27.1381 121.033 GPS 1 12.033 Casuarina pauper -27.1381 121.033 GPS 1 -27.1381 121.033 GPS 1 -27.1381 121.033 Casuarina pauper -27.1381 121.033 GPS 1 -27.1381			Acacia effusifolia, Eucalyptus trivalva.		1 8/12/200
Sandy clay Near Lake Maitland, c. 105 km SE of Wiluna Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper -27.1387 121.033 GPS 1					3 24/10/198
64 120.996 -27.1441 crystylis centralis 3 Sandy clay Near Lake Maitland, c. 105 km SE of Wiluna Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper 6 final pauper to 6 m tail over Thicket of Eremophila over Ope 6 plants in 500 m area is 27.1335 110.60 pc 6 pc 1 1 10.10 pc 1 10.50 pc 1 27.1335 Crystylis centralis 3 low plain. Jo m N of track to Lake Maitland via Little Well, 1.9 km E of main N-S road, 14 low woodland of Casuarina pauper to 6 m tail over Thicket of Eremophila over Ope 6 plants in 500 m area is 27.1335 110.60 pc 5 pc 1 low woodland of Casuarina pauper, Senna artemisloides subsp. arachnoides subsp. arachnoides 3 local crete. Lake Noondie, 150 km SW from Leinster Eucalyptus gypsophila, Casuarina pauper, Senna artemisloides subsp. arachnoides subsp. arachnoides subsp. arachnoides subsp. arachnoides 3 clacrete. Lake Noondie, 150 km SW from Leinster Eucalyptus gypsophila Woodland with Acacia burkitti, Casuarina pauper. locally common28.2795 120.302 (BPS 1 1 19.863 -27.1496 Eremophila arachnoides subsp. arachnoides 3 level hillo Yeelirire Station, Survey Site YEEL09, ca. 71.92 km SSW (209 degrees) of Wiluna Open woodland of Eucalyptus gypsophila woodland of Eucalyptus gypsophila woodland of Eucalyptus gypsophila arachnoides subsp. arachnoides subsp. arachnoides 3 level flat Cytellirie Station, Survey Site YEEL17, ca. 72.09 km SSW (207 degrees) of Wiluna Open woodland of Eucalyptus gypsophila arachnoides subsp. arachnoides subsp. arachnoides 3 level flat Cytellirie Station, Survey Site VEEL17, ca. 72.09 km SSW (207 degrees) of Wiluna Open woodland of Eucalyptus gypsophila arachnoides subsp. arachnoides subsp. arachnoides 3 level flat Cytellirie Station, Survey Site VEEL17, ca. 72.09 km SSW (207 degrees) of Wiluna Open woodland of Eucalyptus gypsophila arachnoides subsp. arachnoides subsp. arachnoides subsp. arachnoides subsp. arachnoides 3 level flat Cytellirie Station, Survey Site UMAVDI, ca. 3.13 9km S (569 degrees) of Wiluna Open tall shrubland of Acacia burkittii over					1 31/10/200
Carbon C	63 121.033 -27.1387 Cratystylis centralis	3 Sandy clay Near Lake Maitland, c. 105 km SE of Wiluna	Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper	-27.1387 121.033 GPS	1 12/01/203
Carbon C	64 120.996 -27.1441 Cratystylis centralis	3 Sandy clay Near Lake Maitland, c. 105 km SE of Wiluna	Casuarina pauper woodland bordering Lake Maitland. Growing with Casuarina pauper	-27.1441 120.996 GPS	1 12/01/203
Section 19.60s 27.7135 Drosera eremaea 3 By grante LMS 5, 19 km SSE of Lake Mason Homestead 27.7135 19.60s GPS 1 19.80s 27.1631 19.80s GPS 1 19.80s 10.80s 1	65 121.011 -27.1335 Cratystylis centralis	3 Low plain. 20 m N of track to Lake Maitland via Little Well, 1.9 km E of main N-S road, 14	Low woodland of Casuarina pauper to 6 m tall over Thicket of Eremophila over Ope	6 plants in 500 m area ir -27.1335 121.011 GPS	1 31/10/200
19.887 -27.1631 Eremophila arachnoides subsp. arach					1 16/09/200
68 120.30 -28.2795 Fermophila arachnoides subsp. arachnoides			Eucalyptus gypsophila, Casuarina pauper. Senna artemisioides ssp. filifolia.		1 8/12/200
69 120.3 -28.2672 Eremophila arachnoides subsp. arachnoides 3 Calcrete. Lake Noondie, 150 km SW of Leinster 70 119.863 -27.1496 Eremophila arachnoides subsp. arachn			,, ,, ,		1 14/02/202
70 119.863 -27.1496 Eremophila arachnoides subsp. arachnoides 3 Level hillo Yeelirrie Station, Survey Site YEEL09, ca. 71.92 km SSW (209 degrees) of Wiluna Open woodland of Eucalyptus gypsophila over open shrubland of Acacia oswaldii, E 19.863 GPS 1 119.876 -27.158 Eremophila arachnoides subsp. arachnoides subsp. arachnoides wery sparse27.158 119.876 GPS 1 19.275 -26.8618 Eremophila arachnoides subsp. arac					1 13/02/202
71 119.876 -27.158 Eremophila arachnoides subsp. arachnoides 3 Level flat Cycelirrie Station, Survey Site YEEL17, ca. 72.09 km SSW (207 degrees) of Wiluna and Open woodland of Casuarina pauper over open shrubland of Eremophila arachnoides very sparse27.158 119.876 GPS 1 20.275 -26.8618 Eremophila arachnoides subsp. arachnoides subs					
72 120.275 - 26.8618 Ermophila arachnoides subsp. arachnoides 3 Very gentil Lake Way Station, Survey Site LWAY01, ca. 31.39 km S (169 degrees) of Wiluna and 120.275 120.338 -26.8488 Ermophila arachnoides subsp. arachnoides subsp. arachnoides 3 Level hillo Lake Way Station, Survey Site LWAY07, ca. 31.80 km SSE (158 degrees) of Wiluna and 190.275					1 6/10/201
73 120.338 -26.8488 Ermophila arachnoides subsp. arachnoides 3 Level hillo Lake Way Station, Survey Site LWAY07, ca. 31.80 km SSE (158 degrees) of Wiluna a Open tall shrubland of Acacia burkittii over sparse shrubland of Senna charlesia isolated plants26.8488 120.338 GPS 1 1 19.618 -27.5409 Ermophila arachnoides subsp. arachnoides subsp. arachnoides common27.5409 119.618 GPS 1 1 19.518 -27.1667 120.533 -27.1667 Ermophila congesta 1 Laterite. S Mount Keith,	' '				1 7/10/203
74 119.618 -27.5409 Eremophila arachnoides subsp. arachnoides 3 Cunyu Lan LMS 11, 12 km NE of Lake Mason Homestead Casuarina woodland. -27.5409 119.618 GPS 1 75 120.533 -27.1667 Eremophila congesta 1 Laterite. S Mount Keith, -27.1667 120.533 MAN 0 76 120.588 -27.3479 Eremophila pungens 4 Wanjarri Nature Reserve. 10 km S of Mount Keith In small grove under Mulga within SIMS Community. -27.3479 120.588 GPS 1					1 8/10/203
75 120.533 -27.1667 Femophila congesta 1 Laterite. S Mount Keith, 0 76 120.588 -27.3479 Eremophila pungens 4 Wanjarri Nature Reserve. 10 km S of Mount Keith In small grove under Mulga within SIMS Community. -27.3479 120.588 GPS 1					1 9/10/202
76 120.588 -27.3479 Eremophila pungens 4 Wanjarri Nature Reserve. 10 km S of Mount Keith In small grove under Mulga within SIMS Community27.3479 120.588 GPS 1			Casuarina woodland.		1 18/09/200
	75 120.533 -27.1667 Eremophila congesta	1 Laterite. S Mount Keith,		-27.1667 120.533 MAN	0 23/08/199
	76 120.588 -27.3479 Eremophila pungens	4 Wanjarri Nature Reserve. 10 km S of Mount Keith	In small grove under Mulga within SIMS Community.	-27.3479 120.588 GPS	1 7/03/200
77 120.708 -27.8362 Eremophila pungens 4 Leinster. E of LNO airport, outside PDP project area. 5 km E of Mt Keith In small grove under Mulga within SIMS Community. -27.8362 120.708 GPS 1		·	· · ·		1 7/03/200
			<u>'</u>		4 /08/1991
		,	Dense vegetation, Mulga, poverty hush, senna		0 5/06/200
			- 5		1 14/04/200
		'	+		1 14/04/200

02 120 525	8 -27.7976 Eremophila pungens	4 Flat, irons Ca 15 km NE of Leinster, occurs on land W of the Leinster Nickel Operations mine	Dominated by Acacias to 3 m.	100+ plants27.7976 120.678 GPS	1 1/06/2006
03 120.53	7 -27.1972 Eremophila pungens	4 Drainage f Ca 3 km N of Mount Keith Operation minesite	Mulga Grove on Hardpan Plain (GRMU).	1 plant27.1972 120.537 GPS	1 4/06/2007
84 120.663	3 -27.0595 Eremophila pungens	4 Wanjarri Nature Reserve, W end of Nature Reserve in Jones Creek, SE of Mount Kei		infrequent, 1 plant27.0595 120.663 GPS	1 16/08/2005
	9 -27.1915 Eremophila pungens	4 Ironstone Mount Keith, 70 km SE of Wiluna		-27.1915 120.579 GPS	
	1 1 5	· · · · · · · · · · · · · · · · · · ·			1 14/09/2005
86 120.531	1 -27.1839 Eremophila pungens	4 On side of Lake Way Station, 40-50 km SE of Wiluna	Wanderrie Bank Grassy Shrublands (WABS).	2 plants27.1839 120.531 GPS	1 13/08/2005
87 120.577	7 -27.192 Eremophila pungens	4 Banded ird Mount Keith, 70 km SE of Wiluna		400-500 plants over 4 h -27.192 120.577 GPS	1 14/09/2005
88 120.693	3 -27.8023 Eremophila pungens	4 Red soils v Approximately 15 km NNE of Leinster, on LNO Minesite	Stony Ironstone Mulga Shrublands with associated species Acacia aneura, A. tetra	abundant27.8023 120.693 GPS	1 19/07/2007
	7 -27.0333 Eremophila pungens	4 Ironstone 5 km E of Shady Grove, Barwidgee Station	High open shrubland.	-27.0333 120.917 AUTO	4 5/06/1988
			- ,		1 5/04/2020
	4 -27.8126 Eremophila pungens	4 Granite ou Ca. 13 km NNE of Leinster	Mid sparse Acacia quadrimarginea shrubland over low sparse shrubs of Calytrix de	3 individuals27.8126 120.734 GPS	
91 120.699	9 -27.8036 Eremophila pungens	4 Flat. Rock, Leinster	Low open woodland of Acacia aneura complex over shrubland of Sida ectogama, Scae		1 28/07/2021
92 121.639	9 -27.6417 Eremophila shonae subsp. diffusa	3 Plain. Brov N of Banjawarn and 1 km SW of Jacks Well		ove 50 plants27.6417 121.639 GPS	1 30/08/2013
93 120.644	4 -27.2627 Eremophila sp. long pedicels (G. Cockerton 1975)	2 Drainage DRMS, Mount Keith	Mulga.	-27.2627 120.644 GPS	1 27/08/1996
	4 -27.2571 Eremophila sp. long pedicels (G. Cockerton 1975)	2 Mount Keith, South Lake Way Borefield	Hardpan Mulga Shrublands (HPMS).	-27.2571 120.74 GPS	1 12/08/2005
95 120.568		2 Lake Way Station, 45 km SE of Wiluna	Drainage tract mulga shrublands (DRMS).	-26.9035 120.568 GPS	1 14/08/2005
96 120.626	6 -27.2602 Eremophila sp. long pedicels (G. Cockerton 1975)	2 Dark red h Mount Keith, restricted to drainage line downstream of MKO TSF	Mulga Woodland with Acacia aneura (5 m), Eremophila gilesii subsp. variabilis (0	-27.2602 120.626 MAN	0 /08/1996
97 119.836	6 -27.5125 Euryomyrtus inflata	3 On burnt slust before corner going E of Morphies Bore, Kaluwiri, on boundary between E Lak		locally common27.5125 119.836 GPS	1 20/03/2005
98 120.225	5 -27.0531 Euryomyrtus inflata	3 In red san(32 miles S of Wiluna on road to Sandstone		-27.0531 120.225 AUTO	3 29/07/1963
99 120.101	, ,	3 Yeelirrie Station, Murchison		-27.219 120.101 GPS	1 17/11/2010
	1 -27.4078 Euryomyrtus inflata	, and the second	Palmas Indiagnia Daviasia Naviasatalia havarehana Assaia Hamalasahur		
	· · ·	3 Red sand. Travelling E to breakaway, 50.3 km NE of homestead, Lake Mason Station N of Sand	Balgas, Jacksonia, Davesia, Newcastelia hexarrhena, Acacia, Homalocalyx.		2 18/09/2005
101 120.15	5 -27.2833 Euryomyrtus inflata	3 Plain, bare 11 km E of Yeelirrie turnoff on road to Mount Keith,	Mid dense Hummock Grass (Muir, 1977) with occasional Triodia sp., Acacia sp., Ac	-27.2833 120.15 MAN	0 30/07/1996
102 120.327	7 -26.8185 Frankenia confusa	4 Growing o Lake Way, ca. 30 km SSE of Wiluna	With Tecticornia aff. undulata, T. halocnemoides, Sclerolaena clelandii, Salsola	-26.8185 120.327 GPS	1 16/10/2014
103 120.357	7 -26.8308 Frankenia confusa	4 Growing o Lake Way, ca. 30 km SSE of Wiluna	With Tecticornia undulata, T. peltata, T. halocnemoides, Disphyma crassifolium a	-26.8308 120.357 GPS	1 16/10/2014
104 120.345		4 Growing o Lake Way, ca. 30 km SSE of Wiluna	With Tecticornia aff. moniliformis, T. aff. undulata, Sclerolaena cuneata and Er	-26.8511 120.345 GPS	1 28/11/2014
105 121.279	3 5	1 Soft red sa 8 km N of Darlot Airport and 60 km E of Leinster	Low open shrubland of Hakea preissii and Cratystylis subspinescens, over Franken	2-5 plants27.8058 121.279 GPS	1 15/06/2020
106 120.549	9 -27.6625 Goodenia modesta	3 Rangeland West side of Lake Miranda	Low shrubland with Lawrencella helmsii, Swainsona sp., Samphire, Eragrostis diel	>50 plants27.6625 120.549 GPS	1 19/07/2018
107 120.647	7 -27.4067 Goodenia modesta	3 Grey clay i Track, south of shearing shed to breakaways	Grassland.	20-5027.4067 120.647 GPS	1 18/07/2006
	3 -27.6626 Goodenia modesta	3 Playa form Yakabindie Station, 30 km N from Leinster	Melaleuca interioris & Muehlenbeckia florulenta thickets with Exocarpos aphyllus	scattered individuals wii -27.6626 120.63 GPS	1 9/12/2016
	9 -27.8113 Grevillea inconspicua	4 W of Rocky's Reward Mine, Leinster	The state of the s	-27.8113 120.689 MAN	0 26/08/1997
			Charles at Assats Business C		
	7 -27.4736 Grevillea inconspicua	4 Hilly slope S of Jones Creek,	Shrubland, Acacia linophylla, Senna sp.	-27.4736 120.557 MAN	0 5/04/1996
111 120.567	7 -27.45 Grevillea inconspicua	4 Flat draina 0.4 km along Six Mile Well Track along Wiluna-Leinster Road on N side by Jones C	Low open shrubland.	-27.45 120.567 MAN	0 14/12/1990
112 120.917	7 -28.2074 Grevillea inconspicua	4 Weebo Station, Leinster	With mulga (Acacia aneura) and Eucalyptus camaldulensis.	-28.2074 120.917 MAN	0 23/08/1997
113 120.267	7 -27.2667 Grevillea inconspicua	4 N slope of E of Six Mile Well track, W of Drill Corp track	In Acacia aneura shrubland.	-27.2667 120.267 MAN	0 14/12/1990
	1 -27.3781 Grevillea inconspicua	4 Outcrop. SNW corner of Barwidgee Station, control, Morphettes Well	The state of the s	-27.3781 121.01 MAN	0 17/12/1997
			uest e tel c :		
	7 -27.7667 Grevillea inconspicua	4 Greenston 3.5 km up Sandstone-Yeelirrie Rd	With Eremophila fraseri.	-27.7667 120.917 MAN	0 16/12/1990
116 121.067	7 -28 Grevillea inconspicua	4 Stony, iror Anaconda Nickel's Marshall Pool leases, Weebo Station	Mulga Shrublands.	-28 121.067 MAN	4 23/08/1997
117 120.567	7 -27.4333 Grevillea inconspicua	4 Stoney rise 2 km S of Wanjarri Nature Reserve on Yakabindie Station	Open shrubland.	-27.4333 120.567 MAN	3 3/06/1988
118 120.5		4 Drainage I 30 km S of Dominion Yakabindie Camp, 200 metres E of Drillcorp Camp	In Acacia aneura woodland.	-27.4667 120.5 MAN	0 15/12/1990
				-28.0014 119.945 AUTO	
	+ · · · · · · · · · · · · · · · · · · ·	4 Amphiboly Booylgoo Range, 5.1 km S, then 9.1 km E from No. 1 Bore track, 3.8 km from Booyl	Ptilotus shrubland.		3 16/12/1990
120 120.533	3 -27.5 Grevillea inconspicua	4 Ironstone Mount Mann, 1.3 km W of Leinster-Wiluna Rd, 1.5 km S of Six Mile turnoff	In Acacia woodland.	-27.5 120.533 MAN	0 19/12/1990
121 120.917	7 -27.7667 Grevillea inconspicua	4 On greens 3.1 km SW of Boolylgoo Homestead track and Sandstone Yeelirrie Rd		-27.7667 120.917 MAN	0 16/12/1990
122 119.914	4 -27.7609 Grevillea inconspicua	4 Gradual sl Booylgoo Station on Sandstone-Yeelirrie Road, 1.8 km E of Station turnoff	Very open Acacia aneura shrubland over Eremophila fraseri, Scaevola spp., occasi	-27.7609 119.914 GPS	1 29/10/1994
123 120.577	·	4 Rocky slop Slopes of Mount Goode, Violet Range, Yakabindie Station, Austin District,	Senna artemisioides subsp. x sturtii, S. artemisioides subsp. helmsii.	-27.306 120.577 GPS	1 28/08/1998
	· ·				
	8 -27.4707 Grevillea inconspicua	4 E facing ge Violet Range Survey Site VIOL12, Yakbindi Station, located ca 5 km ESE Mail Chan	Sparse shrubland of Acacia sibirica and Acacia cf. resinmarginea over sparse shr	isolated plants27.4707 120.588 GPS	1 12/09/2008
125 120.695	5 -27.8245 Grevillea inconspicua	4 Flat plain Approximately 15 km NE of Leinster. Occurs in land W of the Leinster Nickel Oper	Dominated by Acacias to 3 m.	5 plants27.8245 120.695 GPS	1 3/06/2006
126 119.906	6 -27.8201 Grevillea inconspicua	4 South sou Booylgoo Range, adjacent to survey site BOOY10. On Booylgoo Spring Station appro	Shrubland of Acacia xanthocarpa and Acacia ramulosa var. ramulosa over open shru	sparse27.8201 119.906 GPS	1 4/09/2006
127 119.894		4 West sout Booylgoo Range, survey site BOOY18. On Booylgoo Spring Station approximately 2.2	Shrubland of Acacia xanthocarpa, Acacia ramulosa var. ramulosa and Eremophila ol	sparse27.7714 119.894 GPS	1 6/09/2006
	9 -27.7007 Grevillea inconspicua	4 South soul Booylgoo Range, survey site BOOY23. On Booylgoo Spring Station approximately 4.8	Open shrubland of Acacia xanthocarpa and Acacia burkittii over open shrubland of		1 7/09/2006
129 119.896	6 -27.7829 Grevillea inconspicua	4 West facin Booylgoo Range, survey site BOOY14. On Booylgoo Spring Station approximately 3.3	Open shrubland of Acacia ramulosa var. ramulosa, Acacia xanthocarpa and Eremophi	very sparse27.7829 119.896 GPS	1 5/09/2006
130 119.893	3 -27.6992 Grevillea inconspicua	4 South-eas Booylgoo Range, survey site BOOY24. On Booylgoo Spring Station approximately 5.1	Shrubland of Acacia burkittii, Acacia ramulosa var. ramulosa and Acacia aneura o	sparse27.6992 119.893 GPS	
131 119.887	7 -27.7683 Grevillea inconspicua	4 3 0 0 0 1 2 4. On booyigoo spring station approximately 3.1		3parse. 27.0552 115.055 dr 5	1 8/09/2006
		4 Rocky gull 70 km N of Sandstone,	Shruhland Furalyntus lucasii Acacia acuminata sen hurkittii Ptilatus ohovatu	-27.7683 119.887 MAN	0 28/05/2000
132 120.713	3 -28.224 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road	Shrubland, Eucalyptus lucasii, Acacia acuminata ssp. burkittii, Ptilotus obovatu	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS	0 28/05/2000 1 13/11/1995
132 120.713 133 120.713	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS	0 28/05/2000 1 13/11/1995 1 13/11/1995
132 120.713 133 120.713 134 121.188	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis 8 -28.2631 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road 4 Red brown Road to Melrose Station, 8.4 km from the Leonora - Leinster Road	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere Mulga woodland. Growing with Eremophila margarethae, E. latrobei and small Acaci	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS common28.2631 121.188 GPS	0 28/05/2000 1 13/11/1995 1 13/11/1995 1 28/10/1993
132 120.713 133 120.713 134 121.188	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS	0 28/05/2000 1 13/11/1995 1 13/11/1995
132 120.713 133 120.713 134 121.188 135 121.126	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis 8 -28.2631 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road 4 Red brown Road to Melrose Station, 8.4 km from the Leonora - Leinster Road	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere Mulga woodland. Growing with Eremophila margarethae, E. latrobei and small Acaci	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS common28.2631 121.188 GPS	0 28/05/2000 1 13/11/1995 1 13/11/1995 1 28/10/1993
132 120.713 133 120.713 134 121.188 135 121.126 136 120.978	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis 8 -28.2631 Hemigenia exilis 6 -28.3733 Hemigenia exilis 8 -28.3994 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road 4 Red brown Road to Melrose Station, 8.4 km from the Leonora - Leinster Road 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Low plains Wilson Creek, N of Minnirichie Well, Leonora	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere Mulga woodland. Growing with Eremophila margarethae, E. latrobei and small Acaci Acacia aneura, A. quadrimarginea, Scaevola spinescens. Acacia shrubland.	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS common28.2631 121.188 GPS -28.3733 121.126 MAN -28.3994 120.978 MAN	0 28/05/2000 1 13/11/1995 1 13/11/1995 1 28/10/1993 0 28/05/1996 0 /06/1996
132 120.713 133 120.713 134 121.188 135 121.126 136 120.978 137 121.126	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis 8 -28.2631 Hemigenia exilis 6 -28.3733 Hemigenia exilis 8 -28.3994 Hemigenia exilis 6 -28.3733 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road 4 Red brown Road to Melrose Station, 8.4 km from the Leonora - Leinster Road 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Low plains Wilson Creek, N of Minnirichie Well, Leonora 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere Mulga woodland. Growing with Eremophila margarethae, E. latrobei and small Acaci Acacia aneura, A. quadrimarginea, Scaevola spinescens. Acacia shrubland. Acacia shrubland with Acacia aneura, A. quadrimarginea, Scaevola spinescens, Hyb	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS common28.2631 121.188 GPS -28.3733 121.126 MAN -28.3994 120.978 MAN -28.3733 121.126 MAN	0 28/05/2000 1 13/11/1995 1 13/11/1995 1 28/10/1993 0 28/05/1996 0 /06/1996 0 28/05/1996
132 120.713 133 120.713 134 121.188 135 121.126 136 120.978 137 121.126 138 120.552	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis 8 -28.2631 Hemigenia exilis 6 -28.3733 Hemigenia exilis 8 -28.3994 Hemigenia exilis 6 -28.3733 Hemigenia exilis 6 -28.3733 Hemigenia exilis 2 -27.4739 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road 4 Red brown Road to Melrose Station, 8.4 km from the Leonora - Leinster Road 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Low plain Wilson Creek, N of Minnirichie Well, Leonora 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Brown silt In Jones Creek,	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere Mulga woodland. Growing with Eremophila margarethae, E. latrobei and small Acaci Acacia aneura, A. quadrimarginea, Scaevola spinescens. Acacia shrubland. Acacia shrubland with Acacia aneura, A. quadrimarginea, Scaevola spinescens, Hyb Shrubland, Acacia linophylla, A. tetragonophylla. A. aneura.	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS common28.2631 121.188 GPS -28.3733 121.126 MAN -28.3994 120.978 MAN -28.3733 121.126 MAN occasional27.4739 120.552 MAN	0 28/05/2000 1 13/11/1995 1 13/11/1995 1 28/10/1993 0 28/05/1996 0 /06/1996 0 28/05/1996 0 5/04/1996
132 120.713 133 120.713 134 121.188 135 121.126 136 120.978 137 121.126 138 120.552 139 120.901	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis 8 -28.2631 Hemigenia exilis 6 -28.3733 Hemigenia exilis 6 -28.3733 Hemigenia exilis 6 -28.3733 Hemigenia exilis 2 -27.4739 Hemigenia exilis 1 -28.2126 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road 4 Red browr Road to Melrose Station, 8.4 km from the Leonora - Leinster Road 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Low plain Wilson Creek, N of Minnirichie Well, Leonora 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Brown silt In Jones Creek, 4 Creek bed Sturt Meadows Station, Codys Creek	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere Mulga woodland. Growing with Eremophila margarethae, E. latrobei and small Acaci Acacia aneura, A. quadrimarginea, Scaevola spinescens. Acacia shrubland. Acacia shrubland with Acacia aneura, A. quadrimarginea, Scaevola spinescens, Hyb Shrubland, Acacia linophylla, A. tetragonophylla. A. aneura. Eucalyptus sp., Acacia grasbyi and Eremophila spp.	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS common28.2631 121.188 GPS -28.3733 121.126 MAN -28.3994 120.978 MAN -28.3733 121.126 MAN occasional27.4739 120.552 MAN 20 to 25 plants28.2126 120.901 GPS	0 28/05/2000 1 13/11/1995 1 13/11/1995 1 28/10/1993 0 28/05/1996 0 28/05/1996 0 28/05/1996 1 /10/2004
132 120.713 133 120.713 134 121.188 135 121.126 136 120.978 137 121.126 138 120.552	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis 8 -28.2631 Hemigenia exilis 6 -28.3733 Hemigenia exilis 6 -28.3733 Hemigenia exilis 6 -28.3733 Hemigenia exilis 2 -27.4739 Hemigenia exilis 1 -28.2126 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road 4 Red brown Road to Melrose Station, 8.4 km from the Leonora - Leinster Road 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Low plain Wilson Creek, N of Minnirichie Well, Leonora 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Brown silt In Jones Creek,	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere Mulga woodland. Growing with Eremophila margarethae, E. latrobei and small Acaci Acacia aneura, A. quadrimarginea, Scaevola spinescens. Acacia shrubland. Acacia shrubland with Acacia aneura, A. quadrimarginea, Scaevola spinescens, Hyb Shrubland, Acacia linophylla, A. tetragonophylla. A. aneura.	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS common28.2631 121.188 GPS -28.3733 121.126 MAN -28.3994 120.978 MAN -28.3733 121.126 MAN occasional27.4739 120.552 MAN	0 28/05/2000 1 13/11/1995 1 13/11/1995 1 28/10/1993 0 28/05/1996 0 /06/1996 0 28/05/1996 0 5/04/1996
132 120.713 133 120.713 134 121.188 135 121.126 136 120.978 137 121.126 138 120.552 139 120.901 140 120.583	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis 8 -28.2631 Hemigenia exilis 6 -28.3733 Hemigenia exilis 6 -28.3733 Hemigenia exilis 6 -28.3733 Hemigenia exilis 2 -27.4739 Hemigenia exilis 1 -28.2126 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road 4 Red browr Road to Melrose Station, 8.4 km from the Leonora - Leinster Road 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Low plain Wilson Creek, N of Minnirichie Well, Leonora 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Brown silt In Jones Creek, 4 Creek bed Sturt Meadows Station, Codys Creek	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere Mulga woodland. Growing with Eremophila margarethae, E. latrobei and small Acaci Acacia aneura, A. quadrimarginea, Scaevola spinescens. Acacia shrubland. Acacia shrubland with Acacia aneura, A. quadrimarginea, Scaevola spinescens, Hyb Shrubland, Acacia linophylla, A. tetragonophylla. A. aneura. Eucalyptus sp., Acacia grasbyi and Eremophila spp.	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS common28.2631 121.188 GPS -28.3733 121.126 MAN -28.3733 121.126 MAN -28.3733 121.126 MAN occasional27.4739 120.552 MAN 20 to 25 plants28.2126 120.901 GPS few27.482 120.589 GPS	0 28/05/2000 1 13/11/1995 1 13/11/1995 1 28/10/1993 0 28/05/1996 0 28/05/1996 0 28/05/1996 1 /10/2004
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132 120.713 133 120.713 134 121.186 135 121.126 136 120.978 137 121.126 138 120.552 139 120.901 140 120.582 141 120.532	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis 8 -28.2631 Hemigenia exilis 6 -28.3733 Hemigenia exilis 8 -28.3994 Hemigenia exilis 6 -28.3733 Hemigenia exilis 6 -28.3733 Hemigenia exilis 7 -27.4739 Hemigenia exilis 1 -28.2126 Hemigenia exilis 1 -27.482 Hemigenia exilis 2 -27.481 Hemigenia exilis 2 -27.2471 Hemigenia exilis 8 -28.3994 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road 4 Red browr Road to Melrose Station, 8.4 km from the Leonora - Leinster Road 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Low plains Wilson Creek, N of Minnirichie Well, Leonora 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Brown silt In Jones Creek, 4 Creek bed Sturt Meadows Station, Codys Creek 4 Yakabindie Station, 50 km N from Leinster 4 Plain. Stor Leinster 4 Low plains Wilson Creek, N of Minnirichie Well, Leonora	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere Mulga woodland. Growing with Eremophila margarethae, E. latrobei and small Acaci Acacia aneura, A. quadrimarginea, Scaevola spinescens. Acacia shrubland. Acacia shrubland with Acacia aneura, A. quadrimarginea, Scaevola spinescens, Hyb Shrubland, Acacia linophylla, A. tetragonophylla. A. aneura. Eucalyptus sp., Acacia grasbyi and Eremophila spp. Calytrix desolata low shrubland. Low woodland of Acacia aneura complex and Acacia pruinocarpa over shrubland of E Acacia shrubland.	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS common28.2631 121.188 GPS -28.3733 121.126 MAN -28.3994 120.978 MAN -28.3733 121.126 MAN -28.3733 121.126 MAN -28.3733 121.126 MAN 0ccasional27.4739 120.552 MAN 20 to 25 plants28.2126 120.901 GPS few27.482 120.589 GPS 1 plant27.2471 120.532 GPS -28.3994 120.978 MAN	0 28/05/2000 1 13/11/1995 1 13/11/1995 1 28/10/1993 0 28/05/1996 0 /06/1996 0 5/04/1996 1 /10/2004 1 19/11/2016 1 17/08/2021 0 /06/1996
132 120.713 133 120.713 134 121.188 135 121.126 136 120.978 137 121.126 138 120.552 139 120.901 140 120.588 141 120.532 142 120.978 143 120.985	3 -28.224 Hemigenia exilis 3 -28.224 Hemigenia exilis 8 -28.2631 Hemigenia exilis 6 -28.3733 Hemigenia exilis 8 -28.3994 Hemigenia exilis 6 -28.3733 Hemigenia exilis 6 -28.3733 Hemigenia exilis 7 -27.4739 Hemigenia exilis 1 -28.2126 Hemigenia exilis 9 -27.482 Hemigenia exilis 1 -27.2471 Hemigenia exilis 2 -27.2471 Hemigenia exilis 8 -28.3994 Hemigenia exilis 9 -28.2928 Hemigenia exilis	4 Rocky gull 70 km N of Sandstone, 4 Above cre Poison Creek on Leonora - Agnew road 4 Flat groun Poison Creek on Leonora - Agnew Road 4 Red browr Road to Melrose Station, 8.4 km from the Leonora - Leinster Road 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Low plains Wilson Creek, N of Minnirichie Well, Leonora 4 Low plain Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Brown silt In Jones Creek, 4 Creek bed Sturt Meadows Station, Codys Creek 4 Yakabindie Station, 50 km N from Leinster 4 Plain. Stor Leinster 4 Low plains Wilson Creek, N of Minnirichie Well, Leonora 4 Low plains Marshall Creek, E of Heather Well, Leonora, Goldfields	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere Mulga woodland. Growing with Eremophila margarethae, E. latrobei and small Acaci Acacia aneura, A. quadrimarginea, Scaevola spinescens. Acacia shrubland. Acacia shrubland with Acacia aneura, A. quadrimarginea, Scaevola spinescens, Hyb Shrubland, Acacia linophylla, A. tetragonophylla. A. aneura. Eucalyptus sp., Acacia grasbyi and Eremophila spp. Calytrix desolata low shrubland. Low woodland of Acacia aneura complex and Acacia pruinocarpa over shrubland of E Acacia shrubland. Acacia shrubland.	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS common28.2631 121.188 GPS -28.3733 121.126 MAN -28.3994 120.978 MAN -28.3733 121.126 MAN -28.3733 121.126 MAN -28.3733 121.126 MAN 20 to 25 plants27.4739 120.552 MAN 20 to 25 plants28.2126 120.901 GPS few27.482 120.589 GPS 1 plant27.2471 120.532 GPS -28.3994 120.978 MAN -28.2928 120.989 MAN	0 28/05/2000 1 13/11/1995 1 13/11/1995 1 28/10/1993 0 28/05/1996 0 /06/1996 0 5/04/1996 1 /10/2004 1 19/11/2016 1 17/08/2021 0 /06/1996 0 /06/1996
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Oranitic low shrubland with Acacia neura and Acacia ramulosa var. ramulosa over open sh Shrubland of Acacia aneura and Acacia ramulosa var. ramulosa over open shrubland of Open shrubland of Acacia aneura and Acacia ramulosa var. ramulosa over open shrubland of Open shrubland of Acacia aneura over open shrubland of Homalocalyx echinulatus a Associated sp	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS dominant/abundant28.224 120.713 GPS common28.2631 121.128 GPS -28.3733 121.126 MAN -28.3733 121.126 MAN -28.3733 121.126 MAN -28.3733 121.126 MAN occasional27.4739 120.552 MAN 0ccasional27.4739 120.552 MAN 20 to 25 plants28.2126 120.901 GPS few27.482 120.589 GPS 1 plant27.2471 120.532 GPS -28.3994 120.978 MAN -28.2928 120.989 MAN 1000 + plants27.8493 120.678 GPS rare27.9167 121.283 MAN 100+ plants in 5 ha27.3601 120.585 GPS 20+ plants in 1 ha27.3609 120.586 GPS 100+ in 1 ha +27.3576 120.591 GPS 100+ in 1 ha +27.3576 120.591 GPS 100+ in 1 ha +27.3576 120.591 GPS 100+ in 1 ha +27.3575 120.581 GPS 100+ in 2 ha27.3903 120.566 GPS 1 plant27.4164 120.563 GPS 100+ in 1 ha +27.3575 120.581 GPS 100+ in 2 ha27.3754 120.563 GPS 1 plant27.4164 120.563 GPS 1 plant27.4164 120.563 GPS 1 plant27.3754 120.566 GPS 1 plant27.3759 120.585 GPS 1	0 28/05/2000 1 13/11/1995 1 13/11/1995 1 28/10/1993 0 28/05/1996 0 /06/1996 0 5/04/1996 1 /10/2004 1 19/11/2016 1 17/08/2021 0 /06/1996 1 26/09/2007 4 /04/1895 4 /04/1895 1 23/03/2019 2 3/06/1998 1 22/08/2017 1 22/08/2017 1 24/08/2017 1 26/08/2017 1 26/08/2017 1 26/08/2017 1 26/08/2017 1 25/03/2019 1 9/09/2006 1 14/09/2006 1 11/09/2006
132 120.713 133 120.713 134 121.188 135 121.126 136 120.978 137 121.126 138 120.552 139 120.901 140 120.585 141 120.532 142 120.978 143 120.985 144 120.678 145 121.283 146 121.283 147 120.585 148 120.585 151 120.591 152 120.566 153 120.581 154 120.566 155 120.566 156 120.565 157 120.565 158 19.917 159 119.893 160 119.977 161 119.966	3 -28.224 Hemigenia exilis 3 -28.2631 Hemigenia exilis 6 -28.3733 Hemigenia exilis 6 -28.3733 Hemigenia exilis 6 -28.3733 Hemigenia exilis 7 -27.4739 Hemigenia exilis 7 -27.482 Hemigenia exilis 9 -27.482 Hemigenia exilis 1 -28.2126 Hemigenia exilis 1 -28.2126 Hemigenia exilis 2 -27.2471 Hemigenia exilis 9 -27.482 Hemigenia exilis 8 -28.3994 Hemigenia exilis 8 -28.3994 Hemigenia exilis 8 -28.3994 Hemigenia exilis 9 -27.2471 Hemigenia exilis 1 -27.497 Hemigenia exilis 8 -27.497 Hemigenia exilis 9 -27.3609 Hibbertia sp. Sherwood Breakaways (R.J. Cranfield 6771) 9 -27.3609 Hibbertia sp. Sherwood Breakaways (R.J. Cranfield 6771) 9 -27.3576 Hibbertia sp. 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Cranfield 6771) 7 -27.459 Hibbertia sp. Sherwood Breakaways (R.J. Cranfield 6771) 7 -27.474 Hibbertia sp. Sherwood Breakaways (R.J. Cranfield 6771) 7 -27.484 Hibbertia sp. Sherwood Breakaways (R.J. Cranfield 6771) 7 -27.4924 Homalocalyx echinulatus 8 -28.2928 Homalocalyx echinulatus	4 Rocky gull 4 Above cree 4 Poison Creek on Leonora - Agnew road 4 Flat groun 4 Red brown 8 Road to Melrose Station, 8.4 km from the Leonora - Leinster Road 4 Low plain 4 Low plain 5 Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 4 Low plain 5 Wilson Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 6 Brown silt 6 Low plain 6 Junes Creek, W of Teutonic Bore Mining Centre, Leonora, Goldfields 7 Sturt Meadows Station, Codys Creek 8 Yakabindie Station, 50 km N from Leinster 9 Plain. Stor 9 Leinster Road 9 Low plains 9 Marshall Creek, B of Heather Well, Leonora 9 Low plains 9 Marshall Creek, E of Heather Well, Leonora, Goldfields 9 Summit of Leinster region 9 Creek between Wilsons Pool and Lake Darlot. 9 Creek between Wilson's Pool and Lake Darlot. 9 Creek be	Shrubland, Acacia aneura var. latifolia, var. aneura, Eremophila platycalyx, Ere Mulga woodland. Growing with Eremophila margarethae, E. latrobei and small Acaci Acacia aneura, A. quadrimarginea, Scaevola spinescens. Acacia shrubland. Acacia shrubland with Acacia aneura, A. quadrimarginea, Scaevola spinescens, Hyb Shrubland, Acacia linophylla, A. tetragonophylla. A. aneura. Eucalyptus sp., Acacia grasbyi and Eremophila spp. Calytrix desolata low shrubland. Low woodland of Acacia aneura complex and Acacia pruinocarpa over shrubland of E Acacia shrubland. Acacia shrubland. Stony Acacia, Eremophila shrubland. Associated vegetation: Acacia burkittii, A. 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Sparse shrubland of Acacia aneura and Acacia ramulosa var. ramulosa over open sh Shrubland of Acacia aneura and Acacia ramulosa var. ramulosa over open sh Shrubland of Acacia aneura and Acacia ramulosa var. ramulosa var. poen shrubland of Open shrubland of Acacia aneura over open shrubland of Homalocalyx echinulatus a	-27.7683 119.887 MAN dominant/abundant28.224 120.713 GPS common28.2631 121.188 GPS -28.3733 121.126 MAN -28.3994 120.978 MAN 0ccasional27.4739 120.552 MAN 0ccasional27.4739 120.552 MAN 20 to 25 plants28.2126 120.901 GPS few27.482 120.589 GPS 1 plant27.2471 120.532 GPS -28.3994 120.978 MAN -28.3994 120.978 MAN 1000 + plants27.471 120.532 GPS rare27.9167 121.283 MAN 100+ plants in 5 ha27.3601 120.585 GPS 20+ plants in 1 ha27.3609 120.586 GPS -27.3609 120.586 GPS 1 plant27.3609 120.586 GPS -27.3609 120.586 GPS -27.3609 120.586 GPS -27.3609 120.586 GPS -27.3609 120.586 GPS 100+ in 1 ha +27.3575 120.581 GPS 100+ in 1 ha +27.3576 120.591 GPS 100+ in 2 ha27.3903 120.566 GPS 100+ in 2 ha27.3903 120.566 GPS 1 plant27.3754 120.566 GPS 1 plant27.3769 120.585 GPS 1 plant27.3769 120.586 GPS 1 plant27.3754 120.566 GPS 1 plant27.3609 120.586 GPS 1 plant27.3754 120.566 GPS 1 plant27.3759 120.586 GPS	0 28/05/200 1 13/11/199 1 13/11/199 1 28/10/199 0 28/05/199 0 /06/1996 0 28/05/199 0 5/04/199 1 /10/2004 1 19/11/201 1 17/08/202 0 /06/1996 1 26/09/200 4 /04/1895 4 /04/1895 4 /04/1895 1 23/03/201 1 24/03/201 2 3/06/198 1 22/08/201 1 22/08/201 1 22/08/201 1 24/08/201 1 26/08/201 1 26/08/201 1 26/08/201 1 26/08/201 1 26/08/201 1 26/08/201 1 26/08/201 1 26/08/201 1 9/08/201 1 9/09/200 1 8/09/200 1 14/09/200 1 11/09/200

454	400 574 07 4000 11 11 18 11 11 11 11		10 4 1 11 1/4 4 1 1 11 11 1	laa	27.4200	1 420 574 606	1 24/00/2011
164	120.574 -27.4289 Hybanthus floribundus subsp. chloroxanthus	3 Floodplain Ca 5 km E, off Goldfields Highway and ca 18 km S of existing Mt Keith mining ope	Open Acacia shrubland (A. aneura, A. pruinocarpa, A. burkittii) over low open sh	28 plants.	-27.4289		1 21/09/2011
165	120.53 -27.2472 Hybanthus floribundus subsp. chloroxanthus	3 Drainage Leinster	Low woodland of Acacia aneura complex over shrubland of Acacia quadrimarginea an		-27.2472	2 120.53 GPS	1 17/08/2021
166	120.575 -27.4195 Hybanthus floribundus subsp. chloroxanthus	3 Watercou Ca 5 km E, off Goldfields Highway and ca 18 km S of existing Mt Keith mining ope	Open Acacia shrubland (A. aneura, A. quadrimarginea) over low open shrubland (Er	12 plants.	-27.4195	120.575 GPS	1 21/09/2011
167	120.854 -28.0464 Korthalsella leucothrix	1 Red sandy MRD Kent Bore Quarry, 6 km from SLK peg Kalgoorlie - Wiluna road	Open mulga woodland.	frequent.	-28.0464		2 /10/1993
168 169	120.971 -28.1459 Micromyrtus chrysodema	1 Flat plain. Ca 40 km SE of Leinster on Leinster to Leonora Road and 1 km E of road along the	Emergent Eucalyptus gongylocarpa growing to 6 m tall over Scrub dominated by Aca		-28.1459 -28.0143	9 120.971 TOPO	3 11/03/2004
170	120.251 -28.0143 Mirbelia ferricola 120.349 -27.2968 Olearia arida	3 Mt Finnerty, Coolgardie Bioregion 4 Sand plain Albion Downs Station	Banksia arborea low open woodland over Acacia steedmanii high shrubland over All Spinifex hummock grassland with mallee. Associated species: Triodia basedowii.		-27.2968	3 120.251 GPS 3 120.349 UNK	1 23/10/2008 2 16/09/2010
170	120.349 -27.2968 Oleana arida 120.349 -27.2967 Oleana arida	4 Highly mo Yeelirrie project area, transport corridor 150 km NW of Leinster	Sandplain Spinifex Hummock Grassland with Wattles. Acacia pachyacra, Baeckea cry	5 plants in a 20 m radiu	-27.2967	7 120.349 GPS	1 17/05/2009
171	120.549 -27.2967 Oleana anua 120.517 -27.2333 Oleana mucronata	3 Waterfall Gully	Sanupiani Spinilex Huminock Grassianu with Watties. Acada pacifyadia, Baeckea Cry	5 piants in a 20 m radiu	-27.2333	3 120.517 MAN	0 17/09/1989
172	120.364 -26.8725 Paspalidium distans	4 In and aro Site 21, Honeymoon Well Project Area, 40 km S of Wiluna	Mulga shrubland, with other Acacia species.	rare.	-27.2333	5 120.364 MAN	0 12/06/1992
173	121.283 -28.1333 Philotheca tubiflora	1 On breaka 24 km E of Lichman Well, Vacant Crown Land E of Eristoun Station, 500 metres W o	ividiga sili ubialid, with other Atacia species.	iaie.	-28.1333	3 121.283 MAN	3 24/10/1989
175	119.969 -27.1102 Sauropus sp. Woolgorong (M. Officer s.n. 10/8/94)	3 Yeelirrie Station, Murchison	Weathered grainte breakaway plateau community.		-27.1102	2 119.969 GPS	1 11/11/2010
176	120.705 -27.8037 Sauropus sp. Woolgorong (M. Officer s.n. 10/8/94)	3 Flat. Rock Leinster		1 plant.	-27.1102	7 120.705 GPS	1 28/07/2021
177	120.682 -27.3985 Seringia exastia	Flat sandp SWATT Sandplain Survey, Wanjarri Nature Reserve survey site SWA1003B, c. 57.01 k	Open woodland of Acacia affectia complex over shrubland of Acacia effusi	I piant.	-27.3985	120.682 GPS	1 28/08/2013
178	121.6 -27.5667 Seringia exastia T	Plain. Dry, W of Western Bore, on Melrose boundary, Bandya Station,	Hummock grassland, Spinifex, Leptosema chambersii, Dicrastylis.	frequent.	-27.5667	 	3 21/09/2000
179	120.263 -27.1842 Seringia exastia T	Breakawa 10 miles NW of Albion Downs Woolshed	Hummock grassiana, Spinick, Ecptosema chambersii, Dicrastylis.	requent.	-27.1842		3 17/09/1958
180	120.917 -27.0333 Seringia exastia T	Barwidgee Station,	Spinifex areas.		-27.0333		0 //1999
181	120.383 -27.1386 Seringia exastia T	From bore 10 miles N of Albion Downs Station	Spiritex areas.		-27.1386		4 /07/1973
182	120.5 -27.5 Seringia exastia T	Kathleen Valley			-27.5	120.5 MAN	4 3/09/1970
183		Plain of re Site 23, Honeymoon Well Project Area, 40 km S of Wiluna	Mulga and Eucalyptus kingsmillii over spinifex.		-26.935		0 29/08/1992
184	120.7 -27.3892 Seringia exastia T	Flat sandpl SWATT Sandplain Survey, Wanjarri Nature Reserve survey site SWA1002D, ca. 58.02	Hummock grassland of Triodia basedowii.	isolated plants (<1%).	-27.3892	2 120.7 GPS	1 28/08/2013
185	120.964 -28.1309 Seringia exastia T	Flat sandp SWATT Sandplain Survey, Weebo Pastoral Lease, survey site SWA0902C, ca. 35.62 km	Open tall shrubland and woodland of Acacia effusifolia and Eucalyptus youngiana	isolated plants (<1%).	-28.1309		1 30/08/2013
186	120.683 -27.3985 Seringia exastia T	Flat sandp SWATT Sandplain Survey, Wanjarri Nature Reserve survey site SWA1003C, ca. 57.01	Open woodland of Eucalyptus gongylocarpa over sparse shrubland of Acacia effusif	very sparse (1-10%).	-27.3985	 	1 28/08/2013
187	120.341 -28.0867 Seringia exastia T	Red sand. 10 miles W of Lawlers	open noodidita of Eddalypeds Bongyloodi pa orei sparse sin abidita or ricadia en asir	10. y spaise (2 20/0):	-28.0867	7 120.341 AUTO	3 11/10/1953
188	120.5 -27.1333 Seringia exastia T	Red sand. 62 miles N of Agnew on road to Wiluna	Hummock grassland.		-27.1333		3 19/08/1963
189	120.683 -27.4 Seringia exastia T	Growing o Wanjarri Nature Reserve, Grid Ref: 365 600	In Hummock Grassland with Triodia basedowii, Eucalyptus gonglyocarpa.		-27.4	1 120.683 MAN	0 29/09/1986
190	120.533 -27.5831 Seringia exastia T	Red earth Yakabindi Station	Spinifex and mulga, Acacia grasbyi, and a mallee eucalypt.		-27.5831	1 120.533 AUTO	4 /07/1973
191	120.323 -28.0108 Seringia exastia T	At base of 24 km E of Depot Springs Homestead and ca 100 km E of Sandstone	· · · · · · · · · · · · · · · · · · ·		-28.0108	3 120.323 AUTO	3 27/08/1970
192	120.583 -27.1961 Sida picklesiana	3 Weathere Near the Mt Keith nickel minesite, Yeelirrie Station, 70 km SW of Wiluna	Acacia aneura, A. balsamea, A. pruinocarpa, A. quadrimarginea, Callitris glaucop	very sparse.	-27.1961	1 120.583 GPS	1 14/10/2010
193	119.964 -27.1086 Sida picklesiana	3 Weathere 50 km W of Mt Keith, N of Yeelirrie homestead in a smaller breakaway off Albion	Acacia aneura, A. balsamea, A. pruinocarpa, A. quadrimarginea, Callitris glaucop	very sparse.	-27.1086	119.964 GPS	1 4/11/2010
	120.345 -26.8511 Stackhousia clementii	3 Growing o Lake Way, ca. 30 km SSE of Wiluna	With Tecticornia aff. moniliformis, T. aff. undulata, Sclerolaena cuneata, Frank	, , , , , , , , , , , , , , , , , , , ,	-26.8511	1 120.345 GPS	1 28/11/2014
195	120.083 -27.2833 Stenanthemum mediale	1 Red clayey 4 km N of Twin Bore, Yeelirrie Station	Open scrub.		-27.2833	3 120.083 MAN	0 3/05/1990
196	121 -28.3173 Stenanthemum patens	1 Site 18, Marshall Pool, 70 km N of Leonora			-28.3173	3 121 MAN	0 20/07/1997
197	121.014 -28.3327 Stenanthemum patens	1 Low basal Site 49, Marshall Pool, 70 km N of Leonora	Open shrubland with Hemigenia exilis, Grevillea inconspicua, very little underst	infrequent, 50-100 plan	-28.3327	7 121.014 MAN	0 18/06/1997
198	120.526 -27.5719 Swainsona katjarra	1 Yakkabimbie [Yakabindie] Station			-27.5719	9 120.526 TOPO	2 //1984
199	120.281 -27.3407 Tecticornia cymbiformis	3 Salt lake c Albion Downs Station, c. 8 km S of the Albion Downs-Yeelirrie Road on a track, c	Samphire flats with Melaleuca xerophila on the margins.	occasional.	-27.3407	7 120.281 GPS	1 16/04/2010
200	120.981 -27.1122 Tecticornia cymbiformis	3 Lake Maitland, ca. 100 km SE of Wiluna	· · · · · · · · · · · · · · · · · · ·		-27.1122	2 120.981 GPS	1 11/01/2015
201	121.085 -27.1686 Tecticornia cymbiformis	3 On upper Lake Maitland, ca. 105 km SE of Wiluna	With Lawrencia helmsii, Sclerolaena fimbriolata, Eremophea spinosa, Goodenia mai	locally dominant.	-27.1686	121.085 GPS	1 26/11/2014
202	120.972 -27.1128 Tecticornia cymbiformis	3 Upper edg Near Lake Maitland, ca. 100 km SSE of Wiluna	Associated with Melaleuca xerophila, Dissocarpus paradoxus, Frankenia laxiflora,	·	-27.1128	3 120.972 GPS	1 13/10/2014
203	120.973 -27.1125 Tecticornia cymbiformis	3 Upper edg Near Lake Maitland, ca. 100 km SSE of Wiluna	Associated with Melaleuca xerophila, Dissocarpus paradoxus, Frankenia laxiflora,		-27.1125	120.973 GPS	1 9/06/2014
204	120.451 -26.8835 Tecticornia enodis	1 Lake bed. SW corner of Lake Way - 39.9 km SE of Wiluna. 1.7 km N of Duck Swamp	Halosarcia flats. Low Heath D to Dwarf Scrub D (Muir).	100 plants in 20 x 5 m b	-26.8835	120.451 GPS	1 13/12/2005
205	121.08 -27.1964 Tecticornia enodis	1 Lake Maitland, ca. 100 km SE of Wiluna			-27.1964	1 121.08 GPS	1 15/10/2014
206	120.36 -26.8501 Tecticornia enodis	1 Lake Way, ca. 25 km SSE of Wiluna			-26.8501	1 120.36 GPS	1 27/11/2014
207	120.327 -26.8184 Tecticornia enodis	1 Lake Way, ca. 25 km SSE of Wiluna			-26.8184	1 120.327 GPS	1 16/10/2014
208	121.091 -27.2124 Tecticornia enodis	1 Lake Maitland, ca. 100 km SE of Wiluna			-27.2124	1 121.091 GPS	1 27/11/2014
209	120.454 -26.8877 Tecticornia sp. Lake Way (P. Armstrong 05/961)	1 Lake bed. SW corner of Lake Way - 39.9 km SE of Wiluna. 1.7 km N of Duck Swamp	Halosarcia flats. Low Heath D to Dwarf Scrub D (Muir).	500 to 1000 plants in 10	-26.8877	7 120.454 GPS	1 13/12/2005
210	120.451 -26.8842 Tecticornia sp. Lake Way (P. Armstrong 05/961)	1 Lake bed. SW corner of Lake Way - 39.9 km SE of Wiluna. 1.7 km N of Duck Swamp	Halosarcia flats. Low Heath D to Dwarf Scrub D (Muir).	500 to 1000 plants in 10	-26.8842	2 120.451 GPS	1 13/12/2005
211	120.458 -26.8879 Tecticornia sp. Lake Way (P. Armstrong 05/961)	1 Lake bed. SW corner of Lake Way - 39.9 km SE of Wiluna. 1.7 km N of Duck Swamp	Halosarcia flats. Low Heath D to Dwarf Scrub D (Muir).	500 to 1000 plants in 10	-26.8879	120.458 GPS	1 13/12/2005
212	120.455 -26.888 Tecticornia sp. Lake Way (P. Armstrong 05/961)	1 Lake bed. SW corner of Lake Way - 39.9 km SE of Wiluna. 1.7 km N of Duck Swamp	Halosarcia flats. Low Heath D to Dwarf Scrub D (Muir).	500 to 1000 plants in 10	-26.888	3 120.455 GPS	1 7/03/2006
213	120.454 -26.8879 Tecticornia sp. Lake Way (P. Armstrong 05/961)	1 Lake bed. SW corner of Lake Way - 39.9 km SE of Wiluna. 1.7 km N of Duck Swamp	Halosarcia flats. Low Heath D to Dwarf Scrub D (Muir).	500 to 1000 plants in 10	-26.8879	120.454 GPS	1 13/12/2005
214	120.454 -26.8879 Tecticornia sp. Lake Way (P. Armstrong 05/961)	1 Lake bed. SW corner of Lake Way - 39.9 km SE of Wiluna. 1.7 km N of Duck Swamp	Halosarcia flats. Low Heath D to Dwarf Scrub D (Muir).	500 to 1000 plants in 10	-26.8879	120.454 GPS	1 13/12/2005
215	120.806 -27.7984 Thryptomene nealensis	3 On an irre ca 20 km NE of Leinster townsite	Acacia aneura, A. balsamea high open shrubland over Calytrix uncinata, scattered	200+ individuals.	-27.7984	1 120.806 GPS	1 20/07/2007
216	120.806 -27.7983 Thryptomene nealensis	3 Growing o Ca 20 km NE of Leinster townsite, ca 1 km S of Koonoonooka Bore	Acacia aneura, Callitris sp., Psydrax latifolia, Dodonaea petiolaris, D. microzy	200+ plants.	-27.7983	3 120.806 GPS	1 20/08/2007
217	120.807 -27.7991 Thryptomene nealensis	3 Growing o Ca 20 km NE of Leinster townsite, ca 1 km S of Koonoonooka Bore	Acacia aneura, Callitris sp., Psydrax latifolia, Dodonaea petiolaris, D. microzy		-27.7991	1 120.807 GPS	1 20/08/2007
218	120.807 -27.7991 Thryptomene nealensis	3 Growing o Ca 20 km NE of Leinster townsite, ca 1 km S of Koonoonooka Bore	Acacia aneuar, Callitris sp., Psydrax latifolia, Dodonaea petiolaris, D. microzy	200+ plants.	-27.7991	1 120.807 GPS	1 20/08/2007
219	120.807 -27.7991 Thryptomene nealensis	3 Growing o Ca 20 km NE of Leinster townsite, ca 1 km S of Koonoonooka Bore	Acacia aneura, Callitris sp., Psydrax latifolia, Dodonaea petiolaris, D. microzy		-27.7991	1 120.807 GPS	1 20/08/2007
220	120.7 -27.9167 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 Sandstone 2 km from Leonora to Wiluna road intersection on the road to Leicester	With Acacia aneura, Dodonaea, Thryptomene and Hakea.	common.	-27.9167	7 120.7 MAN	0 10/04/1992
	120.995 -28.136 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 Flat top of Adjacent to proposed Rainbow Mine site, 3.7 km NNE of Goldfields Highway; 39 km	Open mulga with scattered tall shrubs to 2 m tall over open herbs.	uncommon - 10 plants i	-28.136		1 13/10/2004
222	120.992 -28.1404 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 Plateau an Adjacent to proposed Rainbow Mine site, 2.4 km NNE of Goldfields Highway, 37 km	Scattered tall shrubs in deeper soil pockets, with small shrubs in other areas.	·	-28.1404		1 13/10/2004
223		3 Flat top of Adjacent to proposed Rainbow Mine site, 3.7 km NNE of Goldfields Highway, 39 km	Open mulga with scattered tall shrubs to 2 m tall over open herbs.	uncommon - 10 plants i	-28.136		1 13/10/2004
224	120.715 -27.7808 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 On plateau ca 15 km NE of Leinster, within LNO Minesite tenements. To E of main pits	Acacia aneura, Acacia balsamea, Calytrix uncinata.	5 plants.	-27.7808		1 28/09/2006
225	120.706 -27.9265 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 On low graLeinster region	Associated vegetation: Acacia aneura, A. balsamea, A. quadrimarginea, Baeckea sp		-27.9265	 	1 19/09/2007
226	120.588 -27.346 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	Northwestern corner of the Wanjarri Nature Reserve	Stony low shrubland (SILS of Thryptomene sp. Leinster 1.2-2.1 m, Calytrix uncina	approximately 200 plus			1 6/03/2008
227	120.689 -27.7958 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 Shallow sq LNO minesite, ca 15 km NE of Leinster	Associated species: Calytrix uncinata, Baeckea sp. Melita Station, Acacia balsam	78 plants.	-27.7958		1 19/07/2007
228	120.522 -27.1874 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 Low stony N of Mount Keith Operation minesite, on caprock borefield	Stony Ironstone Mulga Shrubland (SIMS).	dominant taxon in this			1 4/06/2007
229	120.991 -28.1279 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 On top an Approximately 36.8 km W to Leinster town, 6.1 km W (270deg) to Goldfields Highwa	Open scrub dominated by Acacia aneura growing to 2 m tall; over Open Low Scrub a	20 in the immediate are			1 17/03/2006
230	120.98 -27.9005 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 On top an Approximately 27.9 km E to Leinster town, 25.5 km ENE (191deg) to Goldfields Hig	Open scrub dominated by Acacia aneura growing to 2 m tall; over Open Low Scrub a	10 in the immediate are			1 16/03/2006
231	120.706 -27.9269 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 On the placa 1 km out of Leinster townsite on road to Agnew	Acacia aneura, Acacia balsamea, Calytrix uncinata.	300 + plants.	-27.9269	 	1 28/09/2006
232	120.59 -27.3453 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 Stony. Yakabindie Mine, 30 km N of Leinster	Low shrubland.		-27.3453		1 13/11/2010
233		3 Quartz. Yeelirrie Station, Murchison		a 100 plantair - h	-27.0445		1 3/11/2010
234	120.09 -27.2697 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 Yeelirrie Station, 20 km N of Yeelirrie on Willara Road 3 Edgo of Iol 2.97 km W of Goldfields Highway and Wooho Wildara Road intersection. 4.5 km S of	Dwarf Scrub (Muir 1977) Jong unburnt	c. 100 plants in a hectar		 	2 13/05/2009
235 236	120.897 -28.1301 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 120.59 -27.3453 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 Edge of Io 2.87 km W of Goldfields Highway and Weebo-Wildara Road intersection. 4.5 km S of	Dwarf Scrub (Muir 1977) - long unburnt. Thryptomene sp. Leinster open shrubland with Acacia incurvaneura, A. quadrimargi	common on hilltop.	-28.1301 -27.3453		1 16/02/2005 1 6/11/2016
	120.59 -27.3453 hryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 120.526 -27.2489 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 Upper slog Yakabindie Station, 65 km N from Leinster			-27.3453		1 17/08/2021
237 238	120.526 -27.2489 Inryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 120.703 -27.925 Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362)	3 Ironstone Leinster 3 Skeletal re 1.3 km NE of Goldfields Highway on access road to Leinster	Low woodland of Acacia aneura complex over Acacia quadramarginea and Thryptome		-27.2489		2 27/10/2000
238	120.703 -27.925 Inryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 120.533 -27.207 Tribulus adelacanthus	3 Skeletal re 1.3 km NE of Goldfields Highway on access road to Leinster 3 On hilltop. Ca 2 km N of Mount Keith Operation minesite	Open Acacia spp./Calytrix uncinata/Ptilotus sp. shrubland.	locally frequent.	-27.925		1 4/06/2007
239	120.533 -27.207 I ribulus adelacanthus 120.529 -27.1996 Tribulus adelacanthus	3 Hardpan p Ca. 81 km NNE of Leinster	Stony Ironstone Mulga Shrubland (SIMS).	2 individuals.	-27.207	 	1 4/06/2007
240	120.529 -27.1996 Iribulus adelacanthus 121.085 -27.2104 Triodia plurinervata	3 Growing o Lake Maitland, ca. 105 km SE of Wiluna	Isolated low mulga trees of Acacia incurvaneura and Acacia pruinocarpa, low open	z iiiuiviuüdis.	-27.1996		1 28/11/2014
241	121.085 -27.2104 i riodia piurinervata 120.573 -27.3721 Verticordia jamiesonii	3 Breakawa Breakaways near Leinster townsite. W of LNO between the village and the main hig	With Thryptomene decussata, Eremophila granitica, Acacia balsamea, Calytrix unci		-27.2104		1 13/02/2006
242	120.573 -27.3721 Verticordia jamiesonii 120.573 -27.3721 Verticordia jamiesonii	3 Breakawa Leinster, on breakaway. W of LNO between the village and the main highway	With Thryptomene decussata, Eremophila granitica, Acacia balsamea, Calytrix unci		-27.3721	 	1 14/02/2006
	120.573 -27.3721 Verticordia jamiesonii 120.708 -27.9257 Verticordia jamiesonii	3 Plateau of Ca 1 km from Leinster along road to Agnew	Beackea sp. Melita Station, Calytrix uncinata.	50+ plants.	-27.9257		1 28/09/2006
	120.700 -27.3237 verticordia jarriesoriii	Springers of Call Kill from Lember along road to Agriew					
	120.707 -27.9265 Verticordia jamiesonii	3 Land surfa Leinster region	Associated vegetation: Acacia aneura, A. balsamea, A. quadrimarginea, Baeckea sp	50 + plants.	-27.9265	120.707 GPS	1 19/09/2007

	-27.3624 Verticordia jamiesonii		3 Breakawa Six Mile Block, Yakabindie Station			-27.3624 120.586		1 15/04/2006
	-27.3618 Verticordia jamiesonii	:	Weathere Yakabindie Station, 60 km N from Leinster	Mixed shrubland of Thryptomene sp. Leinster, Acacia rhodophloia, A. quadrimargin	few.	-27.3618 120.585		1 11/12/2016
1 120.615	-26.9417 Vittadinia pustulata -27.4704 Anacampseros sp. Eremaean (F. Hort, J. Hort & J. Shanks 3248)		3 Plain of re Site 19, Honeymoon Well Project Area, 40 km S of Wiluna 1 In depress Yakabindie Station (Crown Lease H-859693; Mining Lease 3600285, BHP Billiton Yak	Mulga and Eucalyptus kingsmillii over spinifex. KALGOORLIE	ESTMT	-26.9417 120.397	/ MAN 50	0 11/06/1992
2 120.729			1 Yakabindie Station (Crow Lease H-859693; Expl. Lic. 3600570, BHP Billiton Nickel	KALGOORLIE	LOTIVIT	+ + + -	8	
3 120.744	-27.4847 Anacampseros sp. Eremaean (F. Hort, J. Hort & J. Shanks 3248)	:	1 Yakabindie Station (Crown Lease H-859693; Expl. Lic. 3600570, BHP Billiton Nicke	KALGOORLIE			36	
4 119.903	-27.1779 Atriplex yeelirrie	T - VU	Low shrub Pastoral Lease (3114-620), lot 63. Yeelirrie Station. BHP Uranium Project State	KALGOORLIE	ESTMT		80542	
5 119.933	-27.1869 Atriplex yeelirrie	T - VU	Low shrub Pastoral Lease (3114-620), lot 63. Yeelirrie Station. BHP Uranium Project State	KALGOORLIE	ESTMT		0	
6 120.19	-27.3266 Atriplex yeelirrie	T - VU	Low shrub Crown Land Pastoral Lease (3114-620), lot 63. Yeelirrie Station. Cameco Uranium	KALGOORLIE	ACT_CLMP			CLUMPS 300
7 120.203 8 120.207	-27.3203 Atriplex yeelirrie -27.3159 Atriplex yeelirrie	T - VU T - VU	Habitat co Pastoral Lease (3114-620), Lot 63. Yeelirrie Station. 38km west along Yeelirrie- Dom sp: F Pastoral Lease (3114-620), Lot 63. Yeelirrie Station. 38km west along Yeelirrie-	KALGOORLIE KALGOORLIE	ESTMT ESTMT	+	3444 21882	
9 120.212	-27.3155 Atriplex yeelinte	T - VU	Self mulch Pastoral Lease (3114-620), Lot 63. Yeelirrie Station. 38km west along Yeelirrie-	KALGOORLIE	ESTMT	+ + -	2337	
10 120.216	' '	T - VU	Saline play Crown Land Pastoral Lease (3114-620), lot 63. Yeelirrie Station. Cameco Uranium	KALGOORLIE	ACT CLMP			CLUMPS 80
11 120.219	-27.3183 Atriplex yeelirrie	T - VU	Dom sp: F Pastoral Lease (3114-620), Lot 63. Yeelirrie Station. 38km west along Yeelirrie-	KALGOORLIE	ESTMT		3982	
12 120.212		T - VU	Habitat co Pastoral Lease (3114-620), Lot 63. Yeelirrie Station. 38km west along Yeelirrie-	KALGOORLIE	ESTMT		58521	
13 120.2		T - VU	Habitat co Pastoral Lease (3114-620), Lot 63. Yeelirrie Station. 31.5km west along Yeelirri	KALGOORLIE	ESTMT		905	
14 120.667	·		3 Thicket, lo Wanjarri Nature Reserve (R 30897). [Ca. 14km NE of Kathleen], Site 7. Shire of L	KALGOORLIE			0	
	-27.9617 Baeckea sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963) -28.1383 Baeckea sp. Sandstone (C.A. Gardner s.n. 26 Oct. 1963)		Depot Springs Station (Crown Lease 3114-585), 31.7 km west of Agnew (by road), t Weebo Station (Crown Lease 3114-1153; Mining Lease 3600511, 2 holders), ca 6.5 k	KALGOORLIE KALGOORLIE		+	0	1
17 120.133			Point Lilian, ca 5 km W of Connie Sue HWY, ca 173 km S of Warburton. Great Victo	KALGOORLIE	ESTMT	+ + + - +	150	
18 121.257			Thick mulg Wongonoo Station (Crown Lease 3114-1060; Expl. Lic. 3700851, Cullen Exploration)	KALGOORLIE			0	
19 120.647	-27.4067 Goodenia modesta	:	3 Grassland Wanjarri Nature Reserve (Crown Reserve 30897), along track running south from sh	KALGOORLIE	ESTMT		35	
20 119.93			Both sides of Sandstone-Yeelirrie Rd. 3.5km SW of jnc with Booylgoo Homestead tr	GERALDTON	ESTMT		45	
21 119.93	·		S side of Sandstone-Yeelirrie Rd. 3.1km SW of jnc with Booylgoo Homestead track.	GERALDTON	ESTMT		30	<u> </u>
22 120.575 23 120.587	-27.4467 Grevillea inconspicua -27.449 Grevillea inconspicua	 '	4 Landform ca 0.7-1.9km SW of Six Mile Well extending E(mostly) & W from track to Wiluna Rd	KALGOORLIE KALGOORLIE	ACT_IND ACT_IND	+	364 28	
24 120.563	·		4 2km SSE of Six Mile Well at Goliath deposit, E of Goliath main track. Yakabindie 4 Cassia sp. For ca 1km along Six Mile Well Track from jnc with Wiluna-Leinster Rd. Both side	KALGOORLIE	ACT_IND	+ + -	58	
25 120.579			4 Landform 2.5-3km S of Six Mile Well down Drill Corp camp track. Both sides of track. Yaka	KALGOORLIE	ACT_IND	+ + -	92	
26 120.569	·		4 Strongly a: NW of Six Mile Well. Proposed site for Dominion Six Mile Well Nickle Mine. Yakab	KALGOORLIE	ACT IND		902	
27 120.575	-27.4195 Grevillea inconspicua		NW of Six Mile Well. 0.5km NW of Dominion proposed pit site at Yakabindie. W of	KALGOORLIE	ACT_IND		99	
28 119.935	·		On N side of Sandstone-Yeelirrie Rd, just past sign to Booylgoo homestead. ca 2k	GERALDTON	ACT_IND		5	
29 120.554	·		4 On rocky r Bellevue mine site camp. Immed. N of camp enclosure fence. Near Mt Pasco. Yakabi	KALGOORLIE	ACT_IND		20	
30 120.618			4 Rocky slop Mt Roberts. 400m W of track running N-S along range. ca 6.4km N of Agnew-Leinste	KALGOORLIE			0	
31 120.616 32 120.615			4 Rocky slog Mt Roberts. 400m W of track running N-S along range. ca 3km N of Agnew-Leinster 4 Rocky slog Mt Roberts. 400m W of track running N-S along range. ca 1.6km N of Agnew-Leinste	KALGOORLIE KALGOORLIE		+	0	1
33 120.616			4 Rocky slop Mt Roberts. 800m W of track running N-5 along range. N of Agnew-Leinster Rd. Lei	KALGOORLIE		+ + + - +	0	
34 120.558	·		4 Plain, hillte S side of Jones Ck opp. Six Mile turnoff from Leinster-Wiluna Rd & on Mt Mann op	KALGOORLIE			0	
35 120.529	-27.529 Grevillea inconspicua		4 Rocky hills 5km W and 850m S of Kathleen Valley Hotel. E side of track covering numerous roc	KALGOORLIE	ESTMT		1000	
36 120.52	·		5km W of Kathleen Valley Hotel. S side of old telephone line rd. Where telephone	KALGOORLIE	ACT_IND		921	
37 120.529	·		4 4.3km W of Kathleen Valley Hotel. S side of track along old telephone line. On d	KALGOORLIE	ACT_IND		360	
38 120.533	·		4 Hilltop, Dr 3.7-4.1km W of Kathleen Valley Hotel. S side of track where joins old telephone	KALGOORLIE	ACT_IND		662	
39 120.571 40 120.547	·	-	4 Rocky hills 2km E of Kathleen Valley Hotel. Around old shed and workings. On rocky hills & d 2km W of Kathleen Valley Hotel. 150-200m S of track. Yakabindie pastoral lease.	KALGOORLIE KALGOORLIE	ACT_IND ESTMT	+	612 700	
	-27.5148 Grevillea inconspicua		4 Both mois 1-1.7km W of Kathleen Valley Hotel. N & S of track on slopes of rocky hills. Aro	KALGOORLIE	ACT IND	+ + + - +	315	
42 120.557			4 Both mois 1km W of Kathleen Valley Hotel, then 200m S. Yakabindie pastoral lease.	KALGOORLIE	ACT IND		283	
43 120.561	-27.5098 Grevillea inconspicua		4 Both mois 400m W of Kathleen Valley Hotel. Follows track around rock hill. Most of popn wi	KALGOORLIE	ACT_IND		915	
44 120.553	·		4 Both mois 2km S of Six Mile track. 1.8km WSW of main road. Yakabindie pastoral lease.	KALGOORLIE	ESTMT		500	
45 120.557	·		4 3.6km E of Wiluna-Agnew Rd on road to Cork Tree Bore. Turnoff is 1.7km N of Yaka	KALGOORLIE	ACT_IND		108	
46 120.552 47 120.551			Extending for 600m along W side of Leinster-Wiluna Rd directly opp. Bellevue Min	KALGOORLIE	ESTMT ESTMT		162 161	
	-27.6404 Grevillea inconspicua -27.5423 Grevillea inconspicua		Extending for 600m along W side of Leinster-Wiluna Rd directly opp. Bellevue Min Yandal pastoral lease. Adj to holding paddock fence.	KALGOORLIE KALGOORLIE	ESTMT		100	
	-27.3917 Grevillea inconspicua	 	4 Low mulg Melrose Pastoral Station, northern boundary, 1km north-east of Mt Harold, spread	KALGOORLIE	ESTMT	+ + + - •	3000	
50 120.713			4 Soil:quartz Weebo Station, ca.5km north-east of Poison Creek crossing with the Agnew-Leonora	KALGOORLIE	ESTMT		200	
51 120.678	-28.1604 Hemigenia exilis		4 growing in Weebo Station, ca. 5km north-east of `Fourteen Mile Creek` crossing with the Agn	KALGOORLIE	ESTMT		200	
	-27.4701 Hemigenia exilis		4 Floodplain Yakabindie Station, ca. 2km east of Kalgoorlie-Meekatharra Road on road to Yakab	KALGOORLIE	ESTMT		420	
	-28.3487 Hemigenia exilis		4 Acacia shr Northern boarder of Weebo & Tarmoola Pastoral Stations, Wilson's Creek, ca. 1.2k	KALGOORLIE	ESTMT	10		
	-28.3504 Hemigenia exilis	 '	4 Acadia shr Northern boarder of Weebo & Tarmoola Pastoral Stations, Wilson's Creek, ca. 1.8k	KALGOORLIE	ESTMT	+	500	
	-28.3762 Hemigenia exilis -28.3767 Hemigenia exilis	 	4 Acacia shr Tarmoola Pastoral Station, Wilson's Creek, west of the Leonora-Leinster Road nea 4 Open Acac Tarmoola Pastoral Station, Wilson's Creek, west of the Leonora-Leinster Road nea	KALGOORLIE KALGOORLIE	ESTMT ESTMT	+ + -	50 350	
	-28.3773 Hemigenia exilis		4 Acacia shr Tarmoola Pastoral Station, Wilson's Creek, west of the Leonora-Leinster Road nea	KALGOORLIE	ESTMT	+ + -	200	
	-28.3784 Hemigenia exilis		4 Acacia shr Tarmoola Pastoral Station, Wilson's Creek, west of Leonora-Leinster Road near Wi	KALGOORLIE	ESTMT	1	450	
	-28.3995 Hemigenia exilis		4 Open acad Tarmoola Pastoral Station, Wilson's Creek, west of Leonora-Leinster Road near Wi	KALGOORLIE	ACT_IND		3	
60 121.127	-		4 Acacia shr Tarmoola Pastoral Station, Wilson's Creek, west of Leonora-Leinster Road near Wi	KALGOORLIE	ESTMT		150	
	-28.3948 Hemigenia exilis	-	4 Open acad Tarmoola Pastoral Station, Wilson's Creek, west of Leonora-Leinster Road near Wi	KALGOORLIE		\bot	200	
62 121.097	Ü	+ '	4 Open acad Tarmoola Pastoral Station, Wilson's Creek, west of Leonora-Leinster Road, Wilson	KALGOORLIE	ESTMT	+	100	
	-28.3981 Hemigenia exilis -28.3865 Hemigenia exilis	+ - '	4 Open acad Stuart Meadows Pastoral Station, Wilson's Creek, north of Minniritchie Well, wes 4 Open acad Tarmoola Pastoral Station, Wilson's Creek, north of Jungle Well, west of Leonora	KALGOORLIE KALGOORLIE	ESTMT ESTMT	+	40 800	
	-28.3865 Hemigenia exilis -28.2912 Hemigenia exilis	 	4 Open acad Farmooia Pastoral Station, Wilson's Creek, north of Jungle Well, West of Leonora 4 Acacia shr Weebo Station, Marshall Creek, east of Heather Well,	KALGOORLIE	ESTMT	+	400	
	-27.3904 Hemigenia exilis	 	4 Yakabindie Station, near McFarlanes Find Mining Centre, west boundary of Wanjarr	KALGOORLIE	ESTMT	+ + + -	100	
	-27.4154 Hemigenia exilis		Wanjarri Nature Reserve, Jones Creek, near western boundary of Reserve.	KALGOORLIE	ACT_IND		70	
	-27.4273 Hemigenia exilis		4 Open low Yakabindie Pastoral Station, north-eastern corner, Mining Lease M36/398, south o	KALGOORLIE	ESTMT		1000	
	-27.3728 Hemigenia exilis	-	4 Yakabindie Pastoral Station, north-eastern corner, Mining Lease M36/398, south o	KALGOORLIE	ACT_IND	\bot	5	
	-27.3737 Hemigenia exilis	<u> </u>	4 Yakabindie Pastoral Station, north-eastern corner, Mining Lease M36/398, south o	KALGOORLIE	ACT_IND	+	3	
71 120.576 72 120.566	-27.3853 Hemigenia exilis	 '	4 Yakabindie Pastoral Station, north-eastern corner, Mining Lease M36/398, south o	KALGOORLIE KALGOORLIE	ACT_IND ESTMT	+	300	
72 120.566	-	 	4 Open mul Yakabindie Pastoral Station, north-eastern corner, Mining Lease M36/398, south o Yakabindie Pastoral Station, north-eastern corner, Mining Lease M36/398, south o	KALGOORLIE	ESTMT	+ + -	150	
	-27.3954 Hemigenia exilis	1 .	4 Yakabindie Pastoral Station, north-eastern corner, Mining Lease M36/398, south o	KALGOORLIE	ESTMT	+++-	100	
	-27.4037 Hemigenia exilis		4 Yakabindie Pastoral Station, north-eastern corner, Mining Lease M36/398, south o	KALGOORLIE	ESTMT	1	5	
76 120.571			4 Yakabindie Pastoral Station, north-eastern corner, Mining Lease M36/398, south o	KALGOORLIE	ESTMT	<u> </u>	1500	
	-27.2292 Hemigenia exilis	-	4 Stony iron Mount Keith Pastoral Station, Mining Lease M53/167, within the approved waste du	KALGOORLIE	ESTMT	59	303	
	-28.2741 Korthalsella leucothrix		1 Parasite. N Weebo Station (Crown Lease 3114-1153), [ca 3 km west of] Kent Bore Quarry (MRD),	KALGOORLIE			0	<u> </u>
79 120.688	-27.8118 Lysiandra baeckeoides	:	3 Dom sp: A Pastoral Lease (3114-899), Lot 59. Leinster Downs Station. Mining Tenement M36/4	KALGOORLIE	ESTMT		150	,

80 121.137 -28.3808 I	Lysiandra baeckeoides 3	Sparse veg	Pastoral Lease (3114-968), Lot 79. Tarmoola Station. Mining Tenement E37/496. Te	KALGOORLIE	ACT_IND	26	6	
81 121.142 -28.378 l	Lysiandra baeckeoides 3		UCL, Lot 27. Mining Tenement M37/44 & M37/515. Teutonic Bore-Jaguar Mine Site. [KALGOORLIE			0	
82 121.14 -28.3854 l	Lysiandra baeckeoides 3	Dense Aca	Pastoral Lease (3114-968), Lot 79. Tarmoola Station. Mining Tenement E37/496. Te	KALGOORLIE	ACT_IND	14	.5	
83 120.971 -28.1459	Micromyrtus chrysodema 1	Emergent	ca 40 km SE of Leinster on Leinster to Leonora Rd. 1 km E of road along the Wate	KALGOORLIE			0	
84 120.085 -27.282	Stenanthemum mediale 1	Erect dwa	Pastoral lease (lot 63) 4 km N of Twin Bore. Yeelirrie Station, approx, 40 km S	KALGOORLIE			0	
85 121 -28.3173	Stenanthemum patens 1		Site 18, Marshall pool, 70 km N of Leonora.	KALGOORLIE			0	
86 121.014 -28.3327	Stenanthemum patens 1	Open shru	Site 49, Marshall Pool, 70 km N of Leonora.	KALGOORLIE		9	0	
87 120.455 -26.888	Tecticornia sp. Lake Way (P. Armstrong 05/961) 1	Halosarcia	Sw corner of Lake Way. 39.9 km SE of Wiluna. 1.7 km N of Duck Swamp.	KALGOORLIE		50	0	
88 120.451 -26.8842	Tecticornia sp. Lake Way (P. Armstrong 05/961) 1		SW corner of Lake Way. 39.9 km SE of Wiluna. 1.7 km N of Duck Swamp.	KALGOORLIE		50	0	
89 120.995 -28.1359	Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 3	Open Mul	Adjacent to proposed Rainbow mine site, 3.7 km NNE of Goldfields HWY, 39 km SE o	KALGOORLIE		1	.0	
90 120.992 -28.1404	Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 3	Scattered	Adjacent to proposed Rainbow mine site, 2.4 km NNE of Goldfields HWY, 37 km SE o	KALGOORLIE		2	0	
91 120.991 -28.1279	Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 3		Approximately 36.8 km W to Leinster town, 6.1 km W (220 deg) to Goldfields HWY a	KALGOORLIE		2	0	
92 120.716 -27.7808	Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 3		ca 15 km N of Leinster, within LNO minesite, to E of main pits. [2.9 km NE of Pe	KALGOORLIE			5	
93 120.706 -27.9265	Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 3		1.3 km NE of the Goldfields HWY on access rd to Leinster. ca 1 km out of Leinste	KALGOORLIE			0	
94 120.588 -27.3461	Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 3	Low shrub	Northwestern corner of the Wanjarri NR. [ca 3.7 km NNE of McFarlanes Find.]	KALGOORLIE		20	0	
95 120.689 -27.7958	Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 3		LNO Minesite, ca 15 km NE of Leinster.	KALGOORLIE		7	8	
96 120.522 -27.1874	Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 3	Stony iron	N of Mt Keith Operation minesite, on caprock borefield. [ca 12 km W of Wiluna Le	KALGOORLIE			0	
97 120.98 -27.9005	Thryptomene sp. Leinster (B.J. Lepschi & L.A. Craven 4362) 3		ca 27.9 km E to Leinster town, 25.5 km ENE (191 deg) to Goldfields HWY and Darlo	KALGOORLIE		1	.0	

Appendix 4: DBCA fauna search results

4 IL	The state of the s	T			I								
	LONG LAT SPECIES COMMON NAME ORDER		RATIN EPBC RATING										
	120.651 -27.3987 Liopholis kintorei REPTILE Threatened	Inerable VU	VU		Wanjarri Nature Reserve	Kathleen Valley, now Wanjarri Nature Reserve			Certain	Survey Caught or 1			-27.3987 41412 Scincidae Liopholis kintorei An
25	120.73 -27.3559 Amytornis striatus striat striated grasswren (sa BIRD Priority	P4		1987	7 Wanjarri Nature Reserve	Wanjarri Nature Reserve, S of rubbish dump in spinifex	7789 T	FAUNA	Certain	Survey Day sightir 1	50000		3 -27.3559 24539 Maluridae Amytornis striatus striatus An
26	7	P4		1979	Wanjarri Nature Reserve	Wanjarri Nature Reserve	7793 T	FAUNA	Certain	Survey Caught or 1	50000	120.73	B -27.3559 24539 Maluridae Amytornis striatus striatus An
58	120.759 -27.3401 Amytornis striatus striat striated grasswren (sa BIRD Priority	P4		2016	Wanjarri Nature Reserve	Wanjarri Nature Reserve	85125 T	FAUNA	Moderate	el Opportuni Sighting 2	1000	120.759	9 -27.3401 24539 Maluridae Amytornis striatus striatus An
97	120.7 -27.4 Amytornis striatus striat Striated grasswren (s BIRD Priority	P4		1979		Eiffel Tower Bore, 1.2 km W of	0 V	VAM_BIR	WAM Vo	u Collection Specimen 1	0	120.7	7 -27.4 24539 Maluridae Amytornis striatus striatus An
89	, , , , , , , , , , , , , , , , , , , ,	ed - migratory MI	MI	2015	WILUNA	Yeelirrie, Yeelirrie	1221318 F	AUNASUR	Certain	Survey Unknown 1	25000		B -27.2838 25554 Apodidae Apus pacificus An
29	120.65 -28.25 Falco peregrinus peregrine falcon BIRD Specially Pi	ed - other specially p OS		1974	Poison Creek	Poison Creek (approx. 100 km north of Leonora)	9803 T	FAUNA	Certain	Opportuni Day sightir 1	10000	120.65	-28.25 25624 Falconidae Falco peregrinus An
92		ed - other specially p OS			Depot Springs Station, Lienster		0 B	BIRDATLAS	52	0	5000	120.085	
	1 0 0 1 7	ed - other specially p OS			L Sandstone - Paynes Find Road	Sandstone - Paynes Find Road		BIRDATLAS				120.109	9 -27.2822 25624 Falconidad Falco peregrinus An
		ed - other specially p OS				o Wanjarri Nature Reserve east boundary		BIRDATLAS		0			
										0			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ed - other specially p OS			Wanjarri Nature Reserve	Wanjarri Nature Reserve		SIRDATLAS		0	100		9 -27.4081 25624 Falconidae Falco peregrinus An
		ed - migratory MI	MI		WILUNA	Yeelirrie, Yeelirrie	1221314 F.			Survey Unknown 10	25000		3 -27.2838 47954 Laridae Gelochelid nilotica An
	120.773 -27.282 Leipoa ocellata malleefowl BIRD Threatened		VU		7 WANJARRI NATURE RESERVE	Wanjarri Nature Reserve			Certain	Opportuni Secondary 1		120.773	B -27.282 24557 Megapodi Leipoa ocellata An
2	120.797 -27.313 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU		WANJARRI NATURE RESERVE	Wanjarri Nature Reserve	1332 T	FAUNA	Certain	Opportuni Secondary 1	500	120.797	7 -27.313 24557 Megapodi Leipoa ocellata An
15	120.79 -27.247 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU	1998	Mount Keith	Mount Keith	1487 T	FAUNA	Certain	Opportuni Secondary 1	1000	120.79	9 -27.247 24557 Megapodi Leipoa ocellata An
23	121 -27.468 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU	2003	I Yandal Station	Track on boundary with Barwidgee Station	5056 T	FAUNA	Certain	Opportuni Day sightir 2	10000	121	L -27.468 24557 Megapodi Leipoa ocellata An
30	120.092 -27.279 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU	1984	1 Yeelirrie	Yeelirrie Stn	10725 T	FAUNA	Moderate	el Opportuni Sighting 0	10000	120.092	2 -27.279 24557 Megapodi Leipoa ocellata An
33	120.017 -27.428 Leipoa ocellata Malleefowl BIRD Threatened	Inerable VU	VU	2000	SANDSTONE	Yeelirrie	47290 V	VAM BIR	Very Cert	a Survey Sighting 1	1000	120.017	7 -27.428 24557 Megapodii Leipoa ocellata An
34		Inerable VU	VU		SANDSTONE	Yeelirrie			Very Cert	, , ,	1000		3
	120.028 -27.4055 Leipoa ocellata Malleefowl BIRD Threatened		VII		SANDSTONE	Yeelirrie			Very Cert	, , , , , , , , , , , , , , , , , , , ,		120.028	
	120.029 -27.4227 Leipoa ocellata Malleefowl BIRD Threatened		VII		SANDSTONE	Yeelirrie			Very Cert	, , , , , , , , , , , , , , , , , , , ,	1000		3
			VU							, , , , ,			
37		incrubic 10	VU		SANDSTONE	Yeelirrie Veelirrie			Very Cert		1000		3 -27.3975 24557 Megapodi Leipoa ocellata An
			٧U		SANDSTONE	Yeelirrie		_	Very Cert	 		120.029	5, ,
	120.032 -27.425 Leipoa ocellata Malleefowl BIRD Threatened		VU		SANDSTONE	Yeelirrie			Very Cert	, , , , , , , , , , , , , , , ,	1000		<u> </u>
	120.033 -27.4227 Leipoa ocellata Malleefowl BIRD Threatened		VU		SANDSTONE	Yeelirrie			Very Cert	, , , , ,	1000		3 -27.4227 24557 Megapodi Leipoa ocellata An
41	120.127 -27.483 Leipoa ocellata Malleefowl BIRD Threatened	Inerable VU	VU	2000	SIR SAMUEL	Yeelirrie			Very Cert	, , ,	1000	120.127	7 -27.483 24557 Megapodi Leipoa ocellata An
42	120.146 -27.4797 Leipoa ocellata Malleefowl BIRD Threatened	Inerable VU	VU	2000	SIR SAMUEL	Yeelirrie	47299 V	VAM_BIR	Very Cert	a Survey Sighting 1	1000	120.146	6 -27.4797 24557 Megapodi Leipoa ocellata An
43	120.186 -27.5569 Leipoa ocellata Malleefowl BIRD Threatened	Inerable VU	VU	2000	SIR SAMUEL	Yeelirrie	47300 V	VAM_BIR	Very Cert	a Survey Sighting 1	1000	120.186	5 -27.5569 24557 Megapodi Leipoa ocellata An
	120.196 -27.5486 Leipoa ocellata Malleefowl BIRD Threatened		VU	2000	SIR SAMUEL	Yeelirrie			Very Cert	, , ,		120.196	3
	120.017 -27.4279 Leipoa ocellata malleefowl BIRD Threatened		VU		SANDSTONE	Yeelirrie	72669 T		Moderate			120.017	7 -27.4279 24557 Megapodi Leipoa ocellata An
			VII		SANDSTONE	Yeelirrie	72670 T			el Survey Day sightir 0			27.4279 24537 Megapodi Leipoa ocellata An
			\/II		SANDSTONE	Yeelirrie	72670 T			, -, -, -, -	1000		<u> </u>
		incrubic 10	VU							Survey Day sightin 0			
	120.029 -27.4226 Leipoa ocellata malleefowl BIRD Threatened		٧U		SANDSTONE	Yeelirrie	72672 T		Moderate	, , , ,		120.029	
49			VU		SANDSTONE	Yeelirrie	72673 T			el Survey Day sightir 0	1000		3 -27.3974 24557 Megapodi Leipoa ocellata An
50	120.029 -27.4129 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU	2000	SANDSTONE	Yeelirrie	72674 T	FAUNA	Moderate	el Survey Day sightir 0	1000	120.029	9 -27.4129 24557 Megapodii Leipoa ocellata An
51	120.032 -27.4249 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU	2000	SANDSTONE	Yeelirrie	72675 T	FAUNA	Moderate	el Survey Day sightir 0	1000	120.032	2 -27.4249 24557 Megapodi Leipoa ocellata An
52	120.033 -27.4226 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU	2000	SANDSTONE	Yeelirrie	72676 T	FAUNA	Moderate	el Survey Day sightir 0	1000	120.033	3 -27.4226 24557 Megapodi Leipoa ocellata An
53	120.127 -27.4829 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU	2000	SIR SAMUEL	Yeelirrie	72677 T	FAUNA	Moderate	el Survey Day sightir 0	1000	120.127	7 -27.4829 24557 Megapodi Leipoa ocellata An
			VU	2000	SIR SAMUEL	Yeelirrie	72678 T	FAUNA		el Survey Day sightir 0	1000		5 -27.4796 24557 Megapodi Leipoa ocellata An
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		VII		SIR SAMUEL	Yeelirrie	72679 T			el Survey Day sightir 0			27.5568 24557 Megapodi Leipoa ocellata An
			VU) SIR SAMUEL	Yeelirrie	72680 T			, , , ,	1000		
			VU										8.1.
59			VU		LAKE DARLOT	1 km beyond South East boundary - Wanjarri	89786 T			Opportuni Sighting 1	1000		
			VU		2 WILUNA	1 mile North of Yeelirrie RH (near townsite)	89810 T			el Opportuni Sighting 1	10000		B -27.2666 24557 Megapodi Leipoa ocellata An
61	120.14 -27.055 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU	1982	WILUNA	1 mile South of Community Bore	89811 T	FAUNA	Moderate	el Opportuni Sighting 1	1000	120.14	l -27.055 24557 Megapodii Leipoa ocellata An
62	120.083 -27.2833 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU	1976	WILUNA	3 miles East of Middle Well, Yeelirrie Station	90078 T	FAUNA	Moderate	el Opportuni Secondary 0	10000	120.083	3 -27.2833 24557 Megapodi Leipoa ocellata An
63	120.026 -27.4257 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU	1982	SANDSTONE	3 miles South of Jack Bore	90080 T	FAUNA	Moderate	el Opportuni Sighting 1	1000	120.026	5 -27.4257 24557 Megapodi Leipoa ocellata An
64	120.005 -27.9658 Leipoa ocellata malleefowl BIRD Threatened	Inerable VU	VU	1999	SANDSTONE	Approx 50 km west of Agnew on Sandstone Rd	90318 T	FAUNA	Moderate	el Opportuni Sighting 1	1000	120.005	-27.9658 24557 Megapodi Leipoa ocellata An
65	120.65 -27.4 Leipoa ocellata malleefowl BIRD Threatened		VU		2 SIR SAMUEL	Wanjarri	91820 T		Moderate		50000		-27.4 24557 Megapodi Leipoa ocellata An
66			VII		O SIR SAMUEL	Wanjarri	91821 T			el Historical (Secondary 0	50000		3
			VU								30000		
			VU		LEINSTER	Weebo Station	91829 T			Opportuni Sighting 1		120.967	
			VU		WILUNA	Yeelirrie	91901 T			el Opportuni Sighting 1	10000		
91		ed - migratory MI	MI		EINSTER	LEINSTER		BIRDATLAS	_	0	18000		5 -28.082 24808 Scolopacid Tringa nebularia An
98	120.65 -27.4 Polytelis alexandrae Princess parrot BIRD Priority	P4	VU	1964	1	Wanjarri; Kathleen Valley Station	0 V	VAM_BIR	WAM Vo	u Collection Specimen 1	10000	120.65	5 -27.4 24752 Psittacidae Polytelis alexandrae An
3	120.643 -27.4431 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4		1996	WANJARRI NATURE RESERVE	Wanjarri Nature Reserve				el Survey Caught or 1	1000	120.643	B -27.4431 30903 Dasyurida Dasycercu blythi An
4	120.735 -27.2098 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4		1997	7 Mt Keith	Mt Keith (WMC)	1413 T	FAUNA	Moderate	el Survey Caught or 1	500	120.735	5 -27.2098 30903 Dasyurida Dasycercu blythi An
5	120.778 -27.1887 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4		1997	7 Mt Keith	Mt Keith (WMC)	1414 T	FAUNA	Moderate	el Survey Caught or 7	50	120.778	30903 Dasyurida Dasycercu blythi An
	120.517 -27.3087 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4			7 Mt Keith	Mt Keith (WMC)				el Opportuni Sighting 6			7 -27.3087 30903 Dasyurida Dasycercu blythi An
	120.538 -27.1703 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4			7 Mt Keith	Mt Keith (WMC)				Survey Caught or 1			3 -27.1703 30903 Dasyurida Dasycercu blythi An
	121.143 -27.2174 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4			B Barwidgee	Barwidgee			Moderate				30903 Dasyurida Dasycercu blythi An
	121.142 -27.2179 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4			7 Barwidgee	Barwidgee				el Survey Caught or 1			2 -27.2179 30903 Dasyurida Dasycercu blythi An
	121.142 -27.125 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4			7 Barwidgee					el Survey Caught or 1			27.2179 30903 Dasyurida Dasycercu blythi An
		P4				Barwidgee Barwidge				, ,			
	121.147 -27.1425 Dasycercus blythi brush-tailed mulgara MAMMAL Priority				7 Barwidgee	Barwidgee			Moderate	 			7 -27.1425 30903 Dasyurida Dasycercu blythi An
	121.148 -27.1389 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4			7 Barwidgee	Barwidgee			Moderate	, , , , , , , , , , , , , , , ,			3 -27.1389 30903 Dasyurida Dasycercu blythi An
	121.147 -27.1395 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4			7 Barwidgee	Barwidgee				e Survey Caught or 1			7 -27.1395 30903 Dasyurida Dasycercu blythi An
	121.147 -27.1425 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4			7 Barwidgee	Barwidgee			Moderate	 			7 -27.1425 30903 Dasyurida Dasycercu blythi An
	120.515 -27.3069 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4			Mount Keith Mine Site	Mount Keith Mine Site			Moderate				-27.3069 30903 Dasyurida Dasycercu blythi An
17	121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4		1998	Barwidgee	Barwidgee	1489 T	FAUNA	Moderate	el Survey Caught or 1	1000	121.147	7 -27.1453 30903 Dasyurida Dasycercu blythi An
		P4		1998	Barwidgee	Barwidgee	1490 T	FAUNA	Moderate		1000	121.147	7 -27.1369 30903 Dasyurida Dasycercu blythi An
18	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority		1		B Barwidgee	Barwidgee			Moderate	, , , , , , , , , , , , , , , ,			7 -27.1369 30903 Dasyurida Dasycercu blythi An
		P4											
19	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4			3 Barwidgee	IBarwidgee	1492 T			e Survey Caught or 1	1000	121 163	21 -27,13051 309031Dasvurida@Dasvcercumivmi i ian
19 20	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority			1998	Barwidgee	Barwidgee Barwidgee				Survey Caught or 1		121.162	
19 20 21	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4 P4		1998 1998	Barwidgee	Barwidgee	1493 T	FAUNA	Moderate	el Survey Caught or 1	1000	121.147	7 -27.1453 30903 Dasyurida Dasycercu blythi An
19 20 21 27	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4 P4 P4		1998 1998 2004	Barwidgee Sir Samuel	Barwidgee Eastern side of Jones Creek wetland	1493 T 9576 T	FAUNA FAUNA	Moderate Moderate	e Survey Caught or 1 Survey Caught or 1	1000 1000	121.147 120.498	7 -27.1453 30903 Dasyurida Dasycercu blythi An 8 -27.5526 30903 Dasyurida Dasycercu blythi An
19 20 21 27 28	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4 P4 P4 P4		1998 1998 2004 2004	Barwidgee Sir Samuel Sir Samuel	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland	1493 T 9576 T 9577 T	FAUNA FAUNA FAUNA	Moderate Moderate Moderate	e Survey Caught or 1 Survey Caught or 1 Survey Caught or 1	1000 1000 1000	121.147 120.498 120.498	-27.1453 30903 Dasyurida Dasycercu blythi
19 20 21 27 28 31	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi brush-tailed mulgara MAMMAL Priority	P4 P4 P4 P4 P4		1998 1998 2004 2004 2007	Barwidgee Sir Samuel Sir Samuel Sir Samuel 7 Wiluna	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01)	1493 T 9576 T 9577 T 14843 T	FAUNA FAUNA FAUNA FAUNA	Moderate Moderate Moderate Moderate	Survey Caught or 1	1000 1000 1000 1000	121.147 120.498 120.498 121.133	-27.1453 30903 Dasyurida Dasycercu blythi An 2-7.5526 30903 Dasyurida Dasycercu blythi An 2-7.5526 30903 Dasyurida Dasycercu blythi An 2-7.5526 30903 Dasyurida Dasycercu blythi An 2-7.2151 30903 Dasyurida Dasycercu blythi An
19 20 21 27 28 31 83	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority	P4 P4 P4 P4 P4 P4		1998 1998 2004 2004 2007 2014	Barwidgee Sir Samuel Sir Samuel 7 Wiluna I WILUNA	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01) Wiluna, Lake Way	1493 T 9576 T 9577 T 14843 T 1030755 F	FAUNA FAUNA FAUNA FAUNA FAUNASUF	Moderate Moderate Moderate Moderate Certain	Survey Caught or 1 Survey Caught or 1 Survey Caught or 1 Survey Caught or 1 Survey Unknown 1	1000 1000 1000 1000 1000	121.147 120.498 120.498 121.133 120.609	-27.1453 30903 Dasyurida Dasycercu blythi An 27.5526 30903 Dasyurida Dasycercu blythi An 27.5526 30903 Dasyurida Dasycercu blythi An 27.5526 30903 Dasyurida Dasycercu blythi An 27.2151 30903 Dasyurida Dasycercu blythi An -27.0128 30903 Dasyurida Dasycercu blythi An An An An An An An A
19 20 21 27 28 31 83 84	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.82 -27.0113 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority	P4 P4 P4 P4 P4		1998 1998 2004 2004 2007 2014 2014	Barwidgee I Sir Samuel Sir Samuel 7 Wiluna WILUNA I WILUNA	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01)	1493 T 9576 T 9577 T 14843 T 1030755 F 1030756 F	FAUNA FAUNA FAUNA FAUNA AUNASUF	Moderate Moderate Moderate Moderate Certain Certain	Survey Caught or 1	1000 1000 1000 1000	121.147 120.498 120.498 121.133 120.605 120.82	-27.1453 30903 Dasyurida Dasycercu blythi
19 20 21 27 28 31 83 84	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority	P4 P4 P4 P4 P4 P4		1998 1998 2004 2004 2007 2014	Barwidgee I Sir Samuel Sir Samuel 7 Wiluna WILUNA I WILUNA	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01) Wiluna, Lake Way	1493 T 9576 T 9577 T 14843 T 1030755 F 1030756 F	FAUNA FAUNA FAUNA FAUNA AUNASUF	Moderate Moderate Moderate Moderate Certain Certain	Survey Caught or 1 Survey Caught or 1 Survey Caught or 1 Survey Caught or 1 Survey Unknown 1	1000 1000 1000 1000 1000	121.147 120.498 120.498 121.133 120.609	-27.1453 30903 Dasyurida Dasycercu blythi
19 20 21 27 28 31 83 84 103	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.82 -27.0113 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority	P4 P4 P4 P4 P4 P4 P4		1998 2004 2007 2007 2014 2014 1898	Barwidgee I Sir Samuel Sir Samuel 7 Wiluna WILUNA I WILUNA	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01) Wiluna, Lake Way	1493 T 9576 T 9577 T 14843 T 1030755 F 1030756 F	FAUNA FAUNA FAUNA FAUNA AUNASUF	Moderate Moderate Moderate Certain Certain WAM Vo	Survey Caught or 1	1000 1000 1000 1000 1000 1000	121.147 120.498 120.498 121.133 120.605 120.82	-27.1453 30903 Dasyurida Dasycercu blythi
19 20 21 27 28 31 83 84 103	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.82 -27.0113 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.717 -27.35 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.704 -27.3726 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority	P4		1998 2004 2007 2007 2014 2014 1898	Barwidgee I Sir Samuel I Sir Samuel Wiluna I WILUNA I WILUNA WILUNA	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01) Wiluna, Lake Way Wiluna, Lake Way	1493 T 9576 T 9577 T 14843 T 1030755 F 1030756 F 0 V 20632 T	FAUNA FAUNA FAUNA AUNASUF AUNASUF VAM_MA FAUNA	Moderate Moderate Moderate Certain Certain WAM Vo Certain	Survey Caught or 1	1000 1000 1000 1000 1000 1000	121.147 120.498 120.498 121.133 120.605 120.82 120.717 120.704	-27.1453 30903 Dasyurida Dasycercu blythi
19 20 21 27 28 31 83 84 103 32	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.82 -27.0113 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.717 -27.35 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.704 -27.3726 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.666 -27.4442 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority	P4		1998 1998 2004 2007 2014 2014 1899 1997	Barwidgee I Sir Samuel I Sir Samuel Wiluna WILUNA I WILUNA J WILUNA J WILUNA	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01) Wiluna, Lake Way Wiluna, Lake Way Translocated to Wanjarri Nature reserve from Plover Bore site. WANJARRI NAT RES	1493 T 9576 T 9577 T 14843 T 1030755 F 1030756 F 0 V 20632 T	FAUNA FAUNA FAUNA FAUNASUF AUNASUF WAM_MA FAUNA VAM_MA	Moderate Moderate Moderate Certain Certain WAM Vo Certain WAM Vo	Survey Caught or 1	1000 1000 1000 1000 1000 1000 1000 50000	121.147 120.498 120.498 121.133 120.605 120.82 120.717 120.704 120.646	-27.1453 30903 Dasyurida Dasycercu blythi
19 20 21 27 28 31 83 84 103 32 100	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.82 -27.0113 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.777 -27.35 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.704 -27.3726 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.646 -27.4442 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.646 -27.4442 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority	P4		1998 1998 2004 2007 2014 2014 1899 1997 1997	Barwidgee Sir Samuel Sir Samuel Viviluna WILUNA WILUNA WILUNA WILUNA WILUNA WILUNA WILUNA WILUNA WILUNA	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01) Wiluna, Lake Way Wiluna, Lake Way Translocated to Wanjarri Nature reserve from Plover Bore site. WANJARRI NAT RES WANJARRI NAT RES	1493 T 9576 T 9577 T 14843 T 1030755 F 1030756 F 0 V 20632 T 0 V	FAUNA FAUNA FAUNA FAUNASUF AUNASUF VAM_MA FAUNA VAM_MA VAM_MA	Moderate Moderate Moderate Certain Certain WAM Vo Certain WAM Vo WAM Vo	Survey Caught or 1	1000 1000 1000 1000 1000 1000 10000 50000	121.147 120.498 120.498 121.133 120.605 120.82 120.717 120.704 120.646	-27.1453 30903 Dasyurida Dasycercu blythi
19 20 21 27 28 31 83 84 103 32 100 101	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.82 -27.0113 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.717 -27.35 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.704 -27.3726 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.646 -27.4442 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.665 -27.444 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.655 -27.444 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority	P4	VII	1998 1998 2004 2004 2014 2014 1899 1999 1999 1999	Barwidgee Sir Samuel Sir Samuel Viviluna WILUNA WILUNA WILUNA WILUNA WILUNA WILUNA WILUNA WILUNA WANJARRI NATURE RESERVE 7	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01) Wiluna, Lake Way Wiluna, Lake Way Translocated to Wanjarri Nature reserve from Plover Bore site. WANJARRI NAT RES WANJARRI NAT RES WANJARRI NAT RES	1493 T 9576 T 9577 T 14843 T 1030755 F 1030756 T 0 V 20632 T 0 V 0 V 0 V 0 V	FAUNA FAUNA FAUNASUF AUNASUF AUNASUF AUNASUF VAM_MA VAM_MA VAM_MA	Moderate Moderate Moderate Certain Certain WAM Vo Certain WAM Vo WAM Vo	Survey Caught or 1	1000 1000 1000 1000 100 1000 10000 50000 50000	121.147 120.498 121.133 120.605 120.82 120.717 120.704 120.646 120.65	-27.1453 30903 Dasyurida Dasycercu blythi
19 20 21 27 28 31 83 84 103 32 100 101 102	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.82 -27.0113 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.717 -27.35 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.704 -27.3726 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.646 -27.4442 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.646 -27.4442 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.65 -27.44 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.65 -27.44 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.648 -27.4446 Leporillus conditor greater stick-nest rat MAMMAL Priority	P4 PC P4 PC	VU	1998 1998 2004 2004 2014 2014 1899 1999 1999 1999 2019	Barwidgee I Sir Samuel Sir Samuel Villuna WILUNA WILUNA WILUNA Wanjarri Nature Reserve Vanjarri Nature Reserve	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01) Wiluna, Lake Way Wiluna, Lake Way Translocated to Wanjarri Nature reserve from Plover Bore site. WANJARRI NAT RES WANJARRI NAT RES WANJARRI NAT RES WANJARRI NAT RES	1493 T 9576 T 9577 T 14843 T 1030755 F 1030756 F 20632 T 0 V 0 V 0 V 98737 T	FAUNA FAUNA FAUNA FAUNASUF AUNASUF AUNASUF AUNASUF AUNASUF AUNA AUNA AUNA AUNA AUNA AUNA AUNA AU	Moderate Moderate Moderate Moderate Certain Certain WAM Vo Certain WAM Vo WAM Vo Certain	Survey Caught or 1	1000 1000 1000 1000 1000 1000 0 10000 50000 50000	121.147 120.498 120.498 121.133 120.605 120.82 120.717 120.704 120.646 120.646 120.648	-27.1453 30903 Dasyurida Dasycercu blythi
19 20 21 27 28 31 83 84 103 32 100 101 102 69	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.82 -27.0113 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.717 -27.35 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.704 -27.3726 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.646 -27.4442 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.646 -27.4442 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.654 -27.444 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.655 -27.44 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.668 -27.4430 Leporillus conditor greater stick-nest rat MAMMAL Specially Pl 120.455 -27.241 Petrogale lateralis later Black-flanked rock-way MAMMAL Threatened	P4 P	VU EN	1998 1998 2004 2000 2014 2014 1899 1999 1999 2019 2009	Barwidgee I Sir Samuel I Sir Samuel Wiluna WILUNA WILUNA WANJARRI NATURE RESERVE VANJARRI NATURE RESERVE VANJARRI NATURE RESERVE WANJARRI NATURE RESERVE (WANJARRI NATURE RESERVE RESERVE (WANJARRI NATURE RESERVE RESERVE RESERVE RESERVE (WANJARRI NATURE RESERVE	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01) Wiluna, Lake Way Wiluna, Lake Way Translocated to Wanjarri Nature reserve from Plover Bore site. WANJARRI NAT RES WANJARRI NAT RES WANJARRI NATURE RESERVE J Eastern Murchison, Yeelirrie	1493 T 9576 T 9577 T 14843 T 1030756 F 0 V 20632 T 0 V 98737 T 82774 F	FAUNA FAUNA FAUNA FAUNASUF AUNASUF VAM_MA FAUNA VAM_MA VAM_MA VAM_MA FAUNASUF AUNASUF	Moderate Moderate Moderate Moderate Certain Certain WAM Vo Certain WAM Vo WAM Vo Certain Certain	Survey Caught or 1	10000 10000 10000 10000 10000 10000 10000 500000 500000 500000 500000 500000 500000 500000	121.147 120.498 120.498 121.133 120.605 120.82 120.717 120.704 120.646 120.646 120.648 120.648	-27.1453 30903 Dasyurida Dasycercu blythi
19 20 21 27 28 31 83 84 103 32 100 101 102 69 57	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.82 -27.0113 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.717 -27.35 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.704 -27.3726 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.604 -27.4420 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.605 -27.4442 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.605 -27.440 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.605 -27.440 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.605 -27.4412 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.605 -27.406 Leporillus conditor greater stick-nest rat, MAMMAL Specially Pi 120.608 -27.241 Petrogale lateralis later Black-flanked rock-w MAMMAL Threatened	P4	VU EN	1998 1998 2004 2007 2014 2014 1899 1999 1999 2019 2009 2019	Barwidgee Sir Samuel Sir Samuel Visit Samuel Willuna	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01) Wiluna, Lake Way Wiluna, Lake Way Translocated to Wanjarri Nature reserve from Plover Bore site. WANJARRI NAT RES WANJARRI NAT RES WANJARRI NATURE RESERVE) Eastern Murchison, Yeelirrie Yeelirrie, Yeelirrie	1493 T 9576 T 9577 T 14843 T 1030755 F 1030756 F 0 V 20632 T 0 V 0 V 0 V 98737 T 1221367 F 1221367 F	FAUNA FAUNA FAUNA FAUNASUF AUNASUF AUNASUF VAM_MA FAUNA VAM_MA VAM_MA FAUNA FAUNASUF AUNASUF AUNASUF	Moderate Moderate Moderate Moderate Certain WAM Vo Certain WAM Vo WAM Vo Certain Certain Certain Certain Certain Certain Certain	Survey Caught or 1	1000 1000 1000 1000 1000 1000 1000 50000 50000 50000 50000 50000 1000 25000	121.147 120.498 120.498 121.133 120.609 120.82 120.717 120.704 120.646 120.646 120.648 120.49 120.648	-27.1453 30903 Dasyurida Dasycercu blythi
19 20 21 27 28 31 83 84 103 32 100 101 102 69 57	121.147 -27.1369 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.162 -27.1305 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.147 -27.1453 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 120.498 -27.5526 Dasycercus blythi brush-tailed mulgara MAMMAL Priority 121.133 -27.2151 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.605 -27.0128 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.82 -27.0113 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.717 -27.35 Dasycercus blythi Brush-tailed mulgara MAMMAL Priority 120.704 -27.3726 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.646 -27.4442 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.646 -27.4442 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.654 -27.444 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.655 -27.44 Dasycercus sp. Brush-tailed mulgara MAMMAL Priority 120.668 -27.4430 Leporillus conditor greater stick-nest rat MAMMAL Specially Pl 120.455 -27.241 Petrogale lateralis later Black-flanked rock-way MAMMAL Threatened	P4 P	VU EN	1998 1998 2004 2000 2014 2014 1899 1999 1999 2019 2009	Barwidgee Sir Samuel Sir Samuel Visit Samuel Willuna	Barwidgee Eastern side of Jones Creek wetland Eastern side of Jones Creek wetland Lake Maitland (LM01) Wiluna, Lake Way Wiluna, Lake Way Translocated to Wanjarri Nature reserve from Plover Bore site. WANJARRI NAT RES WANJARRI NAT RES WANJARRI NATURE RESERVE J Eastern Murchison, Yeelirrie	1493 T 9576 T 9577 T 14843 T 1030755 F 1030756 F 0 V 20632 T 0 V 0 V 0 V 98737 T 1221367 F 1221367 F	FAUNA FAUNA FAUNA FAUNASUF AUNASUF AUNASUF VAM_MA FAUNA VAM_MA VAM_MA FAUNA FAUNASUF AUNASUF AUNASUF	Moderate Moderate Moderate Moderate Certain WAM Vo Certain WAM Vo WAM Vo Certain Certain Certain Certain Certain Certain Certain	Survey Caught or 1	1000 1000 1000 1000 1000 1000 1000 50000 50000 50000 50000 50000 1000 25000	121.147 120.498 120.498 121.133 120.609 120.82 120.717 120.704 120.646 120.646 120.648 120.49 120.648	-27.1453 30903 Dasyurida Dasycercu blythi
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74 120.68	3 -27.3613 Idiosoma clypeatum	northern shield-backe	INVERTEB Priority	P3 201	1 Yakabindie		98870	TFAUNA Certain	Survey	Caught or 1	50	120.683 -27.3613	48926 Idiopidae Idiosoma	clypeatum	Animalia
		northern shield-backe		P3 201	1 Yakabindie		98871			Caught or 1	50	120.683 -27.3613	48926 Idiopidae Idiosoma		Animalia
76 120.68	3 -27.3613 Idiosoma clypeatum	northern shield-backe	INVERTEB Priority	P3 201	1 Yakabindie		98872	TFAUNA Certain	Survey	Caught or 1	50	120.683 -27.3613	48926 Idiopidae Idiosoma	clypeatum	Animalia
77 120.69	2 -27.4004 Idiosoma clypeatum	northern shield-backe	INVERTEB Priority	P3 201	1 Yakabindie		98873	TFAUNA Certain	Survey	Caught or 1	50	120.692 -27.4004	48926 Idiopidae Idiosoma	clypeatum	Animalia
78 120.39	6 -27.417 Idiosoma clypeatum	northern shield-backe	INVERTEB Priority	P3 200	8 Abion Downs	62.6 km NNW of Leinster	98874	TFAUNA Certain	Survey	Caught or 1	50	120.396 -27.417	48926 Idiopidae Idiosoma	clypeatum	Animalia
79 120.39	6 -27.4175 Idiosoma clypeatum	northern shield-backe	INVERTEB Priority	P3 200	8 Albion Downs	62.6 km NNW of Leinster	98875	TFAUNA Certain	Survey	Caught or 1	50	120.396 -27.4175	48926 Idiopidae Idiosoma	clypeatum	Animalia
80 120.6	1 -27.4377 Idiosoma clypeatum	northern shield-backe	INVERTEB Priority	P3 201	1 Yakabindie		98876	TFAUNA Certain	Survey	Caught or 13	50	120.61 -27.4377			Animalia
81 120.6	1 -27.4377 Idiosoma clypeatum	northern shield-backe	INVERTEB Priority	P3 201	1 Yakabindie		98877	TFAUNA Certain	Survey	Caught or 1	50	120.61 -27.4377	48926 Idiopidae Idiosoma	clypeatum	Animalia
82 120.6	1 -27.4377 Idiosoma clypeatum	northern shield-backe	INVERTEB Priority	P3 201	1 Yakabindie		98878	TFAUNA Certain	Survey	Caught or 1	50	120.61 -27.4377	48926 Idiopidae Idiosoma	clypeatum	Animalia
85 120.13	9 -27.116 Idiosoma clypeatum	Northern shield-back	INVERTEB Priority	P3 201	5 WILUNA	Yeelirrie, Never Despair bore	1221272	FAUNASUI Certain	Survey	Unknown 2	100	120.139 -27.116	48926 Idiopidae Idiosoma	clypeatum	Animalia
86 120.13	9 -27.1165 Idiosoma clypeatum	Northern shield-back	INVERTEB Priority	P3 201	5 WILUNA	Yeelirrie, Never Despair bore	1221273	FAUNASUI Certain	Survey	Unknown 1	100	120.139 -27.1165	48926 Idiopidae Idiosoma	clypeatum	Animalia
87 120.13	8 -27.0724 Idiosoma clypeatum	Northern shield-back	INVERTEB Priority	P3 201	5 WILUNA	Yeelirrie, spider site	1221274	FAUNASUI Certain	Survey	Unknown 1	100	120.138 -27.0724	48926 Idiopidae Idiosoma	clypeatum	Animalia
24 120.5	5 -27.5 Kwonkan moriartii	Moriarty's trapdoor s	INVERTEB Priority	P2 196	2 Kathleen	Kathleen Valley Station (via Wiluna)	6336	TFAUNA Certain	Survey	Caught or 1	50000	120.55 -27.5	33919 Nemesiida Kwonkan	moriartii	Animalia
96 120.6	5 -27.4 Kwonkan moriartii	Moriarty's trapdoor s	INVERTEB Priority	P2 196	2		0	WAM_AR/ WAM Vou	Collection	Specimen 1	10000	120.65 -27.4	33919 Nemesiida Kwonkan	moriartii	Animalia



APPENDIX C - CLEARING PERMIT CPS 7914 ANNUAL REPORT



ANNUAL CLEARING PERMIT REPORT FOR CPS 7914/2 COSMOS NICKEL OPERATION

DATE: 21 JULY 2022



DATE	NAME	CHANGE	APPROVED	REVISION
10/07/2022	Jeffrey Yates	Updated draft to IGO template		Α
11/07/2022	John Cooper	Internal QA/QC Review		В
21/07/2022	Jeffrey Yates	Internal QA/QC Review	B. Williams	0



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1. INTRODUCTION

Clearing activities for the purpose under CPS 7914/2 (the permit) and undertaken at the Cosmos Nickel Operation (Cosmos) by Australian Nickel Investments Pty Ltd (ANI) (subsidiary of IGO Limited) are compliant with associated conditions of the permit. An internal annual compliance audit demonstrates adherence to all permit conditions (Table 1). ANI/IGO has therefore met compliance with the permit for the annual reporting period (1 July 2021 to 30 June 2022). ANI were granted Clearing Permit 7914/2 (the permit) in March 2018.

Please note that an amendment to CPS 7914/2 was submitted to DMIRS on the 16th March 2022. The amendment intent is to redescribe the boundary and increase the clearing allowance from 157 Ha to 180 Ha. The amendment also includes extension of the permit duration until 28 February 2027. The amendment is still under assessment.

1.1 Compliance Audit – CPS 7914/2

ANI/IGO authorises clearing at Cosmos in accordance with permit conditions where required. Internal authorisation is permitted through the Land Use Permit (LUP) system and Environmental Management System (EMS). This permit system checks all relevant approvals (including CPS 7914) are in place and imposes mandatory conditions relating to clearing works (pre, during and post). Applicants and project managers have a responsibility to undertake clearing in accordance with the LUP and ensure all associated activities are supervised. The Environmental Department reviews each LUP post completion to check compliance. To date there have been no recorded deviations or incidents relating to LUPs associated with clearing under this permit.

A compliance statement for each condition of the permit has been included as Table 1 as part of the internal compliance audit undertaken on 20 July 2022 for CPS 7914/2. Clearing activities undertaken in accordance with the permit are depicted as Figure 1. Records of clearing undertaken during the reporting period is set out in Table 2.

Table 1: Compliance Statement for Clearing Permit 7914/2

Number	Condition	Compliance Statement		
2	Land on which clearing is to be done: Mining Lease 36/127 Mining Lease 36/180 Mining Lease 36/349 Mining Lease 36/371 Mining Lease 36/659 Purpose for which clearing may be	Clearing under this permit has been undertaken on tenements M36/127, M36/180, M36/371 and M36/349. During the reporting period (FY 2022), clearing was conducted on: • M36/127 (1.65 ha); and • M36/371 (4.90 ha). Clearing has been undertaken for		
	done: Clearing for the purpose of mineral production and associated activities	mineral production and associated activities.		
3	Area of Clearing The Permit Holder must not clear more than 157 hectares of native vegetation. All clearing must be within the area cross-hatched yellow on attached Plan 7914/2.	Clearing undertaken to date is 94.78 Ha, which is within the 157 Ha limit. During the reporting period (FY 2022), 6.55 Ha was cleared for transport services corridors, paste plant extension and other miscellaneous support areas.		



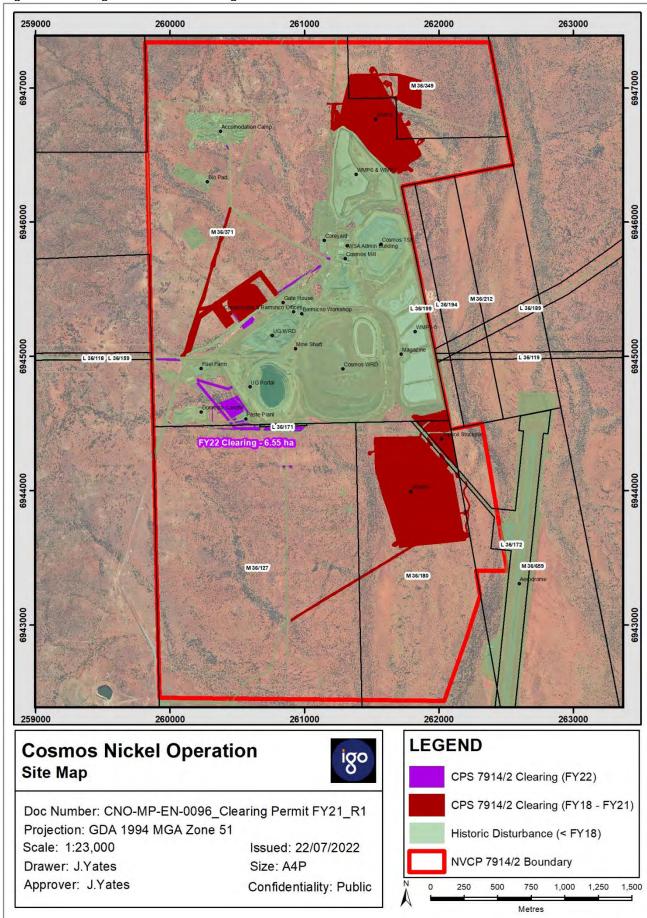
Number	Condition	Compliance Statement
		Since the commencement of the permit, clearing has been undertaken within the cross-hatched yellow of the Permit Plan 7914/2 (Figure 1).
4	Application - This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.	ANI/IGO authorises persons to clear under the LUP system. The applicant is required to adhere to conditions under the LUP.
5	Weed control - When undertaking any clearing or other activity authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of weeds: (i) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared; (ii) ensure that no weed-affected soil, mulch, fill or other material is brought into the area to be cleared; and (iii) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.	Earth moving machinery is required to be clean prior to starting earthmoving works and is then restricted to that area until works are completed. ANI/IGO undertakes weed spraying at Cosmos and maintains a site weed register for better management and control of weed affected areas. Internal LUPs include conditions relating to weed control.
6	Watercourse Management (a) Where practicable the Permit Holder shall avoid clearing riparian vegetation; and (b) Where a watercourse is to be impacted by clearing, the Permit Holder shall maintain the existing surface flow.	No riparian vegetation has been recorded within the clearing permit envelope. Surface water flow modelling was undertaken to determine associated impacts from activities. Drainage design to maintain existing surface flows was undertaken and implemented as required.
7	Records to be kept - The Permit Holder must maintain the following records for activities done pursuant to this Permit: In relation to the clearing of native vegetation authorised under this Permit: (i) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994	Records are kept by ANI/IGO within the records management system. This includes location, date, size and purpose for which the clearing was undertaken. Clearing undertaken during the reporting period is presented in Table 2.



Number	Condition	Compliance Statement
Number	(GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees; (ii) the date that the area was cleared; (iii) the size of the area cleared (in hectares); and (iv) purpose for which clearing was undertaken.	
8a	Reporting - The Permit Holder shall provide a report to the General Manager Environmental Compliance, Resource and Environmental Compliance Directorate, Department of Mines, Industry Regulation and Safety by 31 July each year for the life of this permit, demonstrating adherence to all conditions of this permit, and setting out the records required under Condition 7 of this permit in relation to clearing carried out between 1 July and 30 June of the previous financial year.	Three reports have been submitted for this permit covering financial year periods: - 2018/19; - 2019/20; - 2020/21; and - 2021/22.
8b	Prior to 28 February 2023, the Permit Holder must provide to the General Manager Environmental Compliance, Resource and Environmental Compliance Directorate, Department of Mines, Industry Regulation and Safety a written report of records required under Condition 7 of this Permit where these records have not already been provided under Condition 8(a) of this Permit.	Not yet applicable.



Figure 1: Clearing Activities for Clearing Permit 7914/2





1.2 Clearing Records (FY22) – Condition 7

Table 2: Clearing Conducted under Clearing Permit 7914/2 – FY 2022

Date	Location	Area Cleared (Ha)	Purpose
			CNO mineral production and associated activities, including:
			 Transport services corridors;
			 Paste plant; and
16/06/2022	E:260448 N:6944560	6.55	Other miscellaneous support areas.



APPENDIX D - 2022 WEED MANAGEMENT/TREATMENT REPORT



IGO LIMITED ENVIRONMENT COSMOS NICKEL OPERATION

REPORT ON WEED MANAGEMENT PROGRAM AUGUST 2022

IGO LIMITED ENVIRONMENT COSMOS NICKEL OPERATION

REPORT ON WEED MANAGEMENT PROGRAM AUGUST 2022



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Background & Summary

- Western Areas Ltd provided Western Red Environmental personnel with the 'Scope of Works – Weed Control Program, Environment, Cosmos Nickel Operation' document on the 26th of April 2021.
- Western Red Environmental personnel provided a formal response to the scope of works on the 14th of May 2021 and this was formally accepted on the 14th of June 2021.
- Works were undertaken as per the scope of works and general/specific methodology, as determined and agreed upon by both parties, between the 17th and 21st of June 2021.
- Western Areas Ltd was acquired by IGO Ltd.
- IGO Ltd requested a quote from Western Red Environmental, based on eight days of weed control. This was inclusive of the scope from last year but also additional areas as advised by the Environmental Advisor on site.
- Western Red Environmental personnel commenced traveling to the site on the 26th of July 2022.
- Western Red Environmental personnel commenced traveling from the site on 04th August 2022.

Methodology

The general and specific methodology used on through the program was in keeping with the program proposal and scope.

Please see below for a brief outline of equipment, herbicide used, weed control and general daily breakdown.

Equipment

- 2021 Triton
- TTI 1000L Super Trailer
 - o remote control
 - o twin reel with 100m hose per reel
 - Honda pump motor
 - o Bertollini pump and regulator
- Electric backpacks

Herbicide mix components and concentrations

- Titan (Glyphosate) 1% or 1L/100L
- Surefire (Metsulfuron) 3g/100L
- Grazon Extra (Picloram & Triclopyr) 0.4% or 0.4L per 100L
- Pulse (Penetrant/Surfactant) 0.2% or 0.2L per 100L
- Endorse (Oil Based Sticker) 0.2% or 0.2L per 100L
- Envirodye Red (Rodamine free spray marker dye) 0.2% or 0.2L per 100L

Weed Control

Western Red Environmental is licensed by the Department of Health as a weed control contractor (DOH License 2238). All weed control works were undertaken by licensed environmental technicians, according to Health (Pesticides) Regulations 2011 Western Australia. All weeds were controlled chemically which involved the application of herbicides using a type and technique that was suitable to specific weed species. Chemical control used in this scope of work was undertaken through a foliar spray of herbaceous weeds and grasses. The herbicides used are as listed above.

Each day was generally comprised of the following routine:

- 05.45-06.00- Daily pre-start meeting
- 06.00-06.45 Filling up, mixing, planning, travel to work location
- 06.45-10.00 Spray mapped work areas in keeping with scope and planning
- 10.00-10.30 Break
- 10.30-14.00 Spray mapped work areas in keeping with scope and planning
- 14.00-14.30 Break/check of progress against daily & program target
- 14.30-17.30 Spray mapped work areas in keeping with scope and planning
- 17.30-18.00 Completion of daily administrative tasks e.g., herbicide application records and tracking of progress against targets

Discussion

Some key points of discussion regarding the implementation of the program are as follows:

Job Planning, Management, and Execution

- The 2022 weed management program consisted of eight days (26th July- 02nd August 2022)
- According to the data presented in Figure 1 and Table 1 of this report Western Red Environmental met the mapping and area criteria of the scope of work. In total for this field visit 61.91 L/Ha with an average of 97.73 hectares covered both in and around the Cosmos mine site.
- All priority areas marked (34.87 Ha) were covered in accordance with 'Figure 2: Cosmos Site Plan and Areas of Priority' of the scope of works document (April 2021).
- Additional areas to be controlled were discussed with the Environmental Superintendent on arrival to the site.
- o Western Red Environmental achieved 100% of the target.

Plant and Equipment

- The Supertrailer was useful for heavy infestations such as WWTP Irrigation spray field (Area 15), Airport north-western side of the airport.
- Electric backpacks were used efficiently in and around high-risk areas, such as hard-to-reach areas e.g. steep slopes, topsoil areas, and for light infestations around the village, and other infrastructures.

Efficacy

- The chemical herbicide mix that was used and administered to the plant leaf surface has proven to successfully control the individual weed species.
- Most of the priority weed species were targeted and controlled.
- The *Rumex vesicarius* (Ruby Dock) appeared to metabolise the herbicide mixture quickly and was wilting for the most part by the time we left the site.
- Western Red Environmental would appreciate feedback on the *Cenchrus ciliaris* (Buffel Grass) sprayed at the north-western side of the airport. *Cenchrus ciliaris* (Buffel Grass) is rated as having a high ecological impact, meaning they cause disruption of the ecological process by dominating and/or significantly altering vegetation structure and have a rapid rate of invasiveness.

Support & Supervision

- Had an optimal level of supervision, direction & guidance to enable safe and effective program delivery.
- Western Red Environmental had an appropriate level of autonomy to undertake tasks safely and efficiently by following specific worksite policies and procedures.
- Maps and intel provided were detailed and accurate which were beneficial in completing the job accurately.

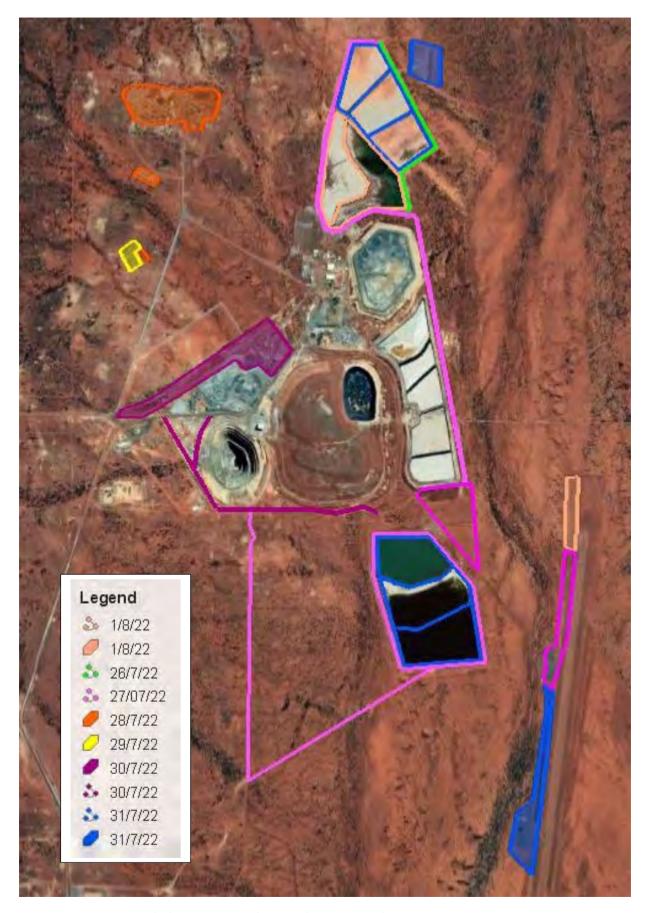


Figure 1: Cosmos Nickel Mine – weed control areas per day

Table 1. Weed Control Data for Program

Date	Map Area or	Hectares	L/Ha	Weed	Main Weed Species	Other Weed Species
	Description	*		Cover		
26/07/2022	WMP 8 (Area 2)	0.668	4.49	Very	Salsola australis (Roly	
				Light	Poly/Prickly Saltwort),	
	Topsoil	3.86	5.18	Very	Salsola australis (Roly	
	Stockpile (Area			Light	Poly/Prickly Saltwort),	
	3) and South				Rumex vesicarius (Ruby	
	East Road along				Dock), Cenchrus ciliaris	
	WMP 8				(Buffel Grass)	
27/07/2022	Eastern and	0.843	17.79	Very	Cenchrus ciliaris (Buffel	
	South Road			Light	Grass), Citrullus lanatus	
	around WMP 6-				(Afghan Melon), Rumex	
	7 (Area 17)				vesicarius (Ruby Dock),	
					Salsola australis (Roly	
	North West	0.528	0	Mami	Poly/Rrickly Saltwort)	
		0.528	0	Very	Salsola australis (Roly	
	Road (leading to WMP 9)			Light	Poly/Prickly Saltwort)	
	West side of	0.739	0		No weeds present	
	TSF (Area 6)					
	WMP 1-5 (Area				No weeds present	
	5)					
	Topsoil	8.74	0.343	Very	Salsola australis (Roly	
	Stockpile 4			Light	Poly/Prickly Saltwort)	
	(Area 4)					
	WMP 9 (Area 1)	7.37	0.135	Very	Salsola australis (Roly	
				Light	Poly/Prickly Saltwort)	
	South Road	0.9	1.11	Very	Cucumis myriocarpus (Paddy	
				Light	Melon)	
	Airport North-	0.6693	224.1	Heavy	Cenchrus ciliaris (Buffel	
	Western side				Grass), Rumex vesicarius	
	Fenceline				(Ruby Dock)	

28/07/2022	Village	8.82	34.01	Light	Rumex vesicarius (Ruby Dock), Salsola australis (Roly Poly/Prickly Saltwort), Cenchrus ciliaris (Buffel Grass), Cucumis myriocarpus (Paddy Melon), Citrullus lanatus (Afghan Melon), Solanum nigrum (Blackberry Nightshade), Cortula turbinata (Funnel Weed), Lysimachia arvensis (Pimpernel), Erigeron bonariensis (Fleabane), Euphorbia maculata (Spotted Spurge) **	Lawn near accommodation office: Lupinus consentinii (Blue Lupin), Sonchus oleraceus (Common Sow Thistle), Purslane portulaca (Common Purslane), Cortula turbinata (Funnel Weed), Lactuca serriola (Prickly Lettuce)
	Old Sport Field	0.5	100	Light	Salsola australis (Roly Poly/Prickly Saltwort)	
	Bioremediation Area	1.4	50	Medium	Cenchrus ciliaris (Buffel Grass), Rumex vesicarius (ruby dock), Salsola australis (Roly Poly/Prickly Saltwort)	Sonchus oleraceus (Common Sow Thistle)
29/07/2022	WWTP Irrigation Spray Field (Area 15) - area to be cleared and recommissioned	1.9	942.1	Medium	Rumex vesicarius (Ruby Dock), Salsola australis (Roly Poly/Prickly Saltwort/Tumbleweed), Cenchrus ciliaris (Buffel Grass), Cucumis myriocarpus (Paddy Melon), Citrullus lanatus (Afghan Melon)**	Solanum nigrum (Blackberry Nightshade), Sonchus oleraceus (Common Sow Thistle), Cortula turbinata (Funnel Weed), Lactuca serriola (Prickly Lettuce), Lysimachia arvensis (Pimpernel), Erigeron bonariensis (Fleabane), Euphorbia maculata (Spotted Spurge)
	ABCO Water System (next to the village)	0.1	40	very light	Rumex vesicarius (Ruby Dock), Salsola australis (Roly Poly/Prickly Saltwort/Tumbleweed), Cenchrus ciliaris (Buffel	. • ,

	1	1	1			
					Grass), Cucumis myriocarpus (Paddy Melon), Citrullus lanatus (Afghan Melon)**	
30/07/2022	Trench	3.3	15.15	Light	Rumex vesicarius (Ruby Dock), Salsola australis (Roly Poly/Prickly Saltwort), Cenchrus ciliaris (Buffel Grass), Cucumis myriocarpus (Paddy Melon)	Euphorbia maculate (Spotted Spurge)
	West Side of the Pit (area south of main road)	1.5	3.33	Light	Rumex vesicarius (Ruby Dock), Cenchrus ciliaris (Buffel Grass)	
	Road South of Pit			Very Light	Rumex vesicarius (Ruby Dock), Cenchrus ciliaris (Buffel Grass)	
	to Topsoil/WMP9 (Area 1)	0.35	0		No weed present	
	Construction Offices	3.8	5.26	Light	Rumex vesicarius (ruby dock), Cenchrus ciliaris (Buffel Grass), Salsola australis (Roly Poly/Prickly Saltwort)	Sonchus oleraceus (Common Sow Thistle), Euphorbia maculata (Spotted Spurge)
	Rock Wall North- West Main Road (rock windrow)	0.6	21.6	Light	Rumex vesicarius (ruby dock), Cenchrus ciliaris (Buffel Grass), Cucumis myriocarpus (Paddy Melon),	Sonchus oleraceus (Common Sow Thistle
	Median North of Fuel Farm 9 (Rocky Windrow/Median leading to Construction	1.8	7.22	Light	Rumex vesicarius (Ruby Dock), Cenchrus ciliaris (Buffel Grass), Salsola australis (Roly Poly/Prickly Saltwort), Cucumis myriocarpus (Paddy Melon),	Sonchus oleraceus (Common Sow Thistle)

	Offices e.g., Barmico office				Citrullus lanatus (Afghan Melon),	
	Landfill Facility & Safety Training Ground	0.7	71.42	Light	Rumex vesicarius (Ruby Dock	
	Airport North- Western side (infrastructures) e.g., Old Terminal	Added in tairport not western s	rth-	Light	Cenchrus ciliaris (Buffel Grass)	Sonchus oleraceus (Common Sow Thistle)
31/07/2022	Airport North- Western Side of Fenceline	01/08/22		Heavy	Cenchrus ciliaris (Buffel Grass), Rumex vesicarius (Ruby Dock), Salsola australis (Roly Poly/Prickly Saltwort)	
	WMP 9 (Area 1) Top Access only	6.8	7.35		Salsola australis (Roly Poly/Prickly Saltwort), Rumex vesicarius (Ruby Dock), Cenchrus ciliaris (Buffel Grass)	
	WMP 8 (Area 2) Top Cccess and down the Pond *only for WMP 8 due to no water present	19.5	12.82	Light to Medium	cells 1-3 in WMP 8 of the pond	twort), <i>Rumex vesicarius</i> (Ruby
1/08/2022	WMP 6, 7 (Area 17) Top access only	4.8	23.96	Light	Rumex vesicarius (Ruby Dock), Cenchrus ciliaris (Buffel Grass)**	
	Airport North- Western Side Fenceline and Infrastructure e.g., old terminal, tracks,	17.4	22.13	Heavy	Rumex vesicarius (Ruby Dock), Cenchrus ciliaris (Buffel Grass)	

2/08/2022	tarmac stockpiles, old fuel storage tanks, wind stock WWTP Irrigation Spray Field (Area 15).				
Average			61.91		
Total		97.73			

^{*} Based on tracking on site and GIS mapping post program.

^{**} All vegetation that was located behind dongas or in nominated setback areas within the village or otherwise was eradicated.

^{***} High litres per hectare as all vegetation was sprayed in this area.

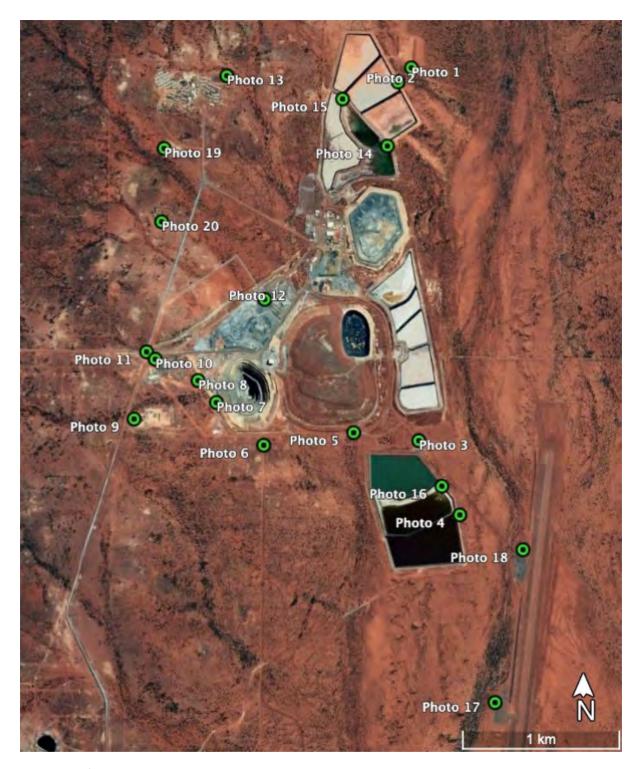


Figure 2. Photo monitoring Locations

Table 2. Photo monitoring Data

Photo #	Area	Latitude	Longitude	Perspective
				/ Direction
1	Topsoil	27°34'52.19"S	120°35'13.02"E	N
2	WMP8	27°34'55.22"S	120°35'9.84"E	SE
3	Topsoil	27°36'10.19"S	120°35'14.00"E	NNW
4	WMP9	27°36'25.54"S	120°35'23.43"E	SSE
5	East/West Road to Topsoil/WMP9	27°36'8.48"S	120°34'58.78"E	W
6	South Rd	27°36'11.14"S	120°34'37.70"E	NNW
7	Road South of Pit	27°36'2.28"S	120°34'26.66"E	SE
8	Area south of Main Rd	27°35'57.72"S	120°34'22.37"E	SE
9	10 - Landfill Facility	27°36'5.71"S	120°34'7.37"E	S
10	Median north of Fuel Farm	27°35'53.30"S	120°34'12.35"E	E
11	Rock wall northwest of Main Rd	27°35'51.77"S	120°34'10.32"E	NE
12	Construction Offices	27°35'40.85"S	120°34'38.09"E	SW
13	Village	27°34'53.88"S	120°34'29.36"E	W
14	WMP 8	27°35'08.7"S	120°35'07.2"E	NE
15	WMP 6-7	27°34'58.8"S	120°34'56.7"E	S
16	WMP 9	27°36'19.6"S	120°35'19.3"E	S
17	Airport north-western side of fence line (near old terminal)	27°37'04.0"S	120°35'31.2"E	NW
18	Airport north-western side of the fence line with rock stockpile	27°36'32.7"S	120°35'38.1"E	S
19	Bioremediation	27°35'09.2"S	120°34'14.5"E	E
20	WWTP Irrigation Spray field (Area 15)	27°35'24.6"S	120°34'13.9"E	E

Note: Photos from 1- 13 were taken on 02/08/22 (8:36am -10:17am) and photos 14-20 were taken from 27/07/22-02/08/22

Recommendations

Based on the outcomes of the 2022 weed management program, the recommendations outlined below are suggested for IGO's Limited consideration.

Table 3: Program recommendations and suggested actions

Recommendations	Actions
Potential hotspot for <i>Cucumis</i> myriocarpus (Paddy Melon), <i>Citrullus</i> lanatus (Afghan Melon), 27°35'38.7"S 120°34'31.2"E	Follow up control of <i>Cucumis myriocarpus (Paddy Melon)</i> and <i>Citrullus lanatus</i> (Afghan Melon) infestations shown in Figure 3.
Commencement of next program in April or May 2023	 Daylight hours are reduced in June-August Time allowance for more field work to be conducted each day including mixing, filling and spray application
Follow up control of <i>Cenchrus ciliaris</i> (Buffel Grass) at the Airport North-Western fenceline	Further control of *Cenchrus ciliaris (Buffel Grass) at the Airport mainly around infrastructure and fence line, as during field visit there were heavy infestations observed and some were already seeded. Best to control during active growth.
Full Foliage spray of all native and weed species around infrastructure e.g., Construction offices, along fence line.	Follow up control of both native and weed species around infrastructure



Figure 3: Landscape photo of the potential hotspot for *Cucumis myriocarpus* (Paddy Melon) and *Citrullus lanatus* (Afghan Melon)

Appendix 1- Photos for Monitoring Data



Photo 1. Topsoil (Area 3) – looking North



Photo 2. WMP8 (Area 2) – looking South East



Photo 3. Topsoil (Area 4) – looking North-North -West



Photo 4. WMP9 (Area 1)- looking South-South-East



Photo 5. East/West Road to Topsoil/WMP9- looking West



Photo 6. South Road – looking North-North-West



Photo 7. Road of South Pit - looking South-East



Photo 8. Area South of Main Road - looking South-East



Photo 9. Landfill Facility - looking South



Photo 10. Median of Fuel Farm - looking East



Photo 11. Rock wall Northwest of Main Road - looking North-East



Photo 12. Construction Offices - looking South-West



Photo 13. Village (Old Sport Field) – looking West

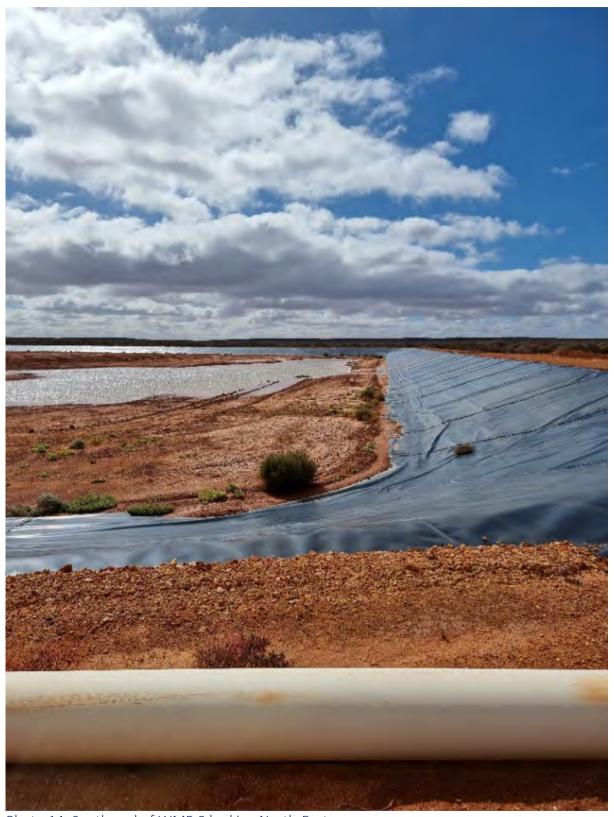


Photo 14. South end of WMP 8 looking North-East



Photo 15. WMP 6-7 (Area 17)- looking South



Photo 16. WMP9 (Area 1)- looking South



Photo 17. Airport north-western fence line - looking North-West



Photo 18. Airport north-western fence line – looking south



Photo 19. Bioremediation area mainly $Cenchrus\ ciliaris$ (Buffel Grass) were chemically controlled – looking east



Photo 20. WWTP Irrigation Spray Field (Area 15) - looking East