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RE: Native Vegetation Clearing Permit Application for CNX Open Pit Project

Focus Operations Pty Ltd (Focus), a wholly owned subsidiary of Focus Minerals Ltd, is proposing to cutback the existing CNX open pit as part of the Project. To support development Focus are seeking a Native Vegetation Clearing Permit for clearing of up to 120 ha within a disturbance envelope of 227 ha for the purpose of mineral production and associated activities.

This letter provides context for proposed clearing and includes an assessment against the ten clearing Principles, as defined under Schedule 5 of the EP Act. The proposed clearing is unlikely to be at variance with any clearing principle.

Included within this letter are:

- A completed NVCP application form (NV-F01);
- An ESRI shapefile of the proposed disturbance envelope / clearing permit area;
- Proof of ownership (Appendix A); and
- Biological surveys undertaken to support the application (Appendix B)

If you have any questions, please contact me on 0427 618 533 or via email on gblick@focusminerals.com.au.

Yours sincerely,

Gemma Blick
Environment Manager
Focus Minerals Ltd

Contents

1. Proposed Activities.....	4
1.1 Location	4
1.2 Disturbance Envelope	4
2. Environmental Setting	8
2.1 Climate.....	8
2.2 Landscape.....	9
2.2.1 Bioregion	9
2.2.2 Soils.....	9
2.3 Biodiversity.....	16
2.3.1 Biological Surveys.....	16
2.3.2 Vegetation.....	17
2.3.3 Flora.....	24
2.3.4 Fauna	25
2.4 Hydrology.....	29
2.5 Hydrogeology.....	32
2.6 Heritage.....	33
2.6.1 Native Title.....	33
2.6.2 Aboriginal Heritage.....	33
2.6.3 European Heritage.....	34
3. Assessment Against Clearing Principles.....	37
4. Clearing Process.....	39
4.1 Equipment.....	39
4.2 Methodology.....	39
4.3 Rehabilitation.....	39
5. Environmental Management	40
5.1 Air quality.....	40
5.2 Land and soils	40
5.3 Fauna.....	40
5.4 Vegetation.....	41
5.5 Weeds	41
6. References.....	42
7. Appendices.....	44

Tables

Table 1: Tenement details	4
Table 2: Summary of physiochemical property results.....	10
Table 3: Physical soil property results summary	10
Table 4: CEC, TOC and Exchangeable Cation results summary	11
Table 5: Nutrient results summary	12
Table 6: Summary of metals results.....	13
Table 7: Summary of soil characterisation findings.....	14
Table 8: Biological surveys.....	16
Table 9: Pre-European vegetation associations	17
Table 10: Vegetation communities.....	18
Table 11: Vegetation condition	19
Table 12: Flora abundance	24
Table 13: Introduced flora	25
Table 14: Fauna abundance	25
Table 15: Fauna habitats	25
Table 16: Significant fauna likelihood	27
Table 17: Introduced fauna	29
Table 18: Registered and Lodged Aboriginal Heritage Places on DPLH ACHIS database	33
Table 19: Aboriginal Heritage Surveys undertaken by Focus	33
Table 20: Clearing principles assessment	37

Figures

Figure 1: Regional location.....	5
Figure 2: Clearing area	6
Figure 3: Indicative site plan	7
Figure 4: Coolgardie climate data (source: Bureau of Meteorology)	8
Figure 5: Soil landscape & sampling locations (360 Environmental, 2021).....	15
Figure 6: Flora, Vegetation & Fauna Survey Area	20
Figure 7: Pre-European vegetation associations	21
Figure 8: Vegetation condition	22
Figure 9: Environmentally sensitive areas.....	23
Figure 10: Local scale drainage around the CNX project area, as modelled by 360 Environmental (2023).....	30
Figure 11: Regional surface water hydrology.....	31
Figure 12: Heritage sites	36

1. Proposed Activities

Focus Operations Pty Ltd (Focus) is proposing to develop the CNX Project (the Project), which encompasses a cutback on the existing CNX open pit with support infrastructure to extract gold ore for processing at the nearby Three Mile Hill (TMH) mill.

Focus will require clearing to be conducted to commence the CNX cutback and associated surface infrastructure. Clearing is required for supporting mine activities including:

- Waste rock landforms (WRL);
- Run-of-mine (ROM) pad;
- Mine water ponds (MWP);
- Dewatering pipelines;
- Topsoil stockpiles;
- Surface water diversion channels or drains; and
- Other ancillary infrastructure.

A Mining Proposal for the Project will be submitted to Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) in conjunction with other supporting approvals required under applicable legislation prior to commencement of activities.

1.1 Location

The Project is located approximately 2km northeast of the gazetted town site of Coolgardie, which is 40 km southwest of Kalgoorlie–Boulder in the Eastern Goldfields region of Western Australia. The Project is situated within the Shire of Coolgardie local government area and accessed via Focus' network of private haul roads. The Project forms part of a broader tenement package covering the Coolgardie Gold Operations (CGO) owned wholly by Focus and its subsidiaries. The Project regional location is shown in Regional location.

The Project requires clearing on four tenements within CGO as detailed in Table 1 below. Proof of ownership of these tenements is provided in **Appendix A**.

Table 1: Tenement details

Tenement ID	Holder 1	Holder 2	Area (ha)	Expiry
L15/95	Focus Minerals Ltd	Focus Operations Pty Ltd	55.00	28/03/2029
M15/630	Focus Minerals Ltd	Focus Operations Pty Ltd	297.45	04/02/2035
M15/645	Focus Minerals Ltd	Focus Operations Pty Ltd	721.60	25/03/2035
M15/827	Focus Minerals Ltd	Focus Operations Pty Ltd	259.65	11/06/2030

1.2 Disturbance Envelope

Focus is requesting a total allowable clearing area of 120 ha within a disturbance envelope of 227 ha as depicted in Figure 2 and Figure 3 (Note: proposed infrastructure layout is indicative only and may change marginally as approved Mining Proposal flexibility allows).

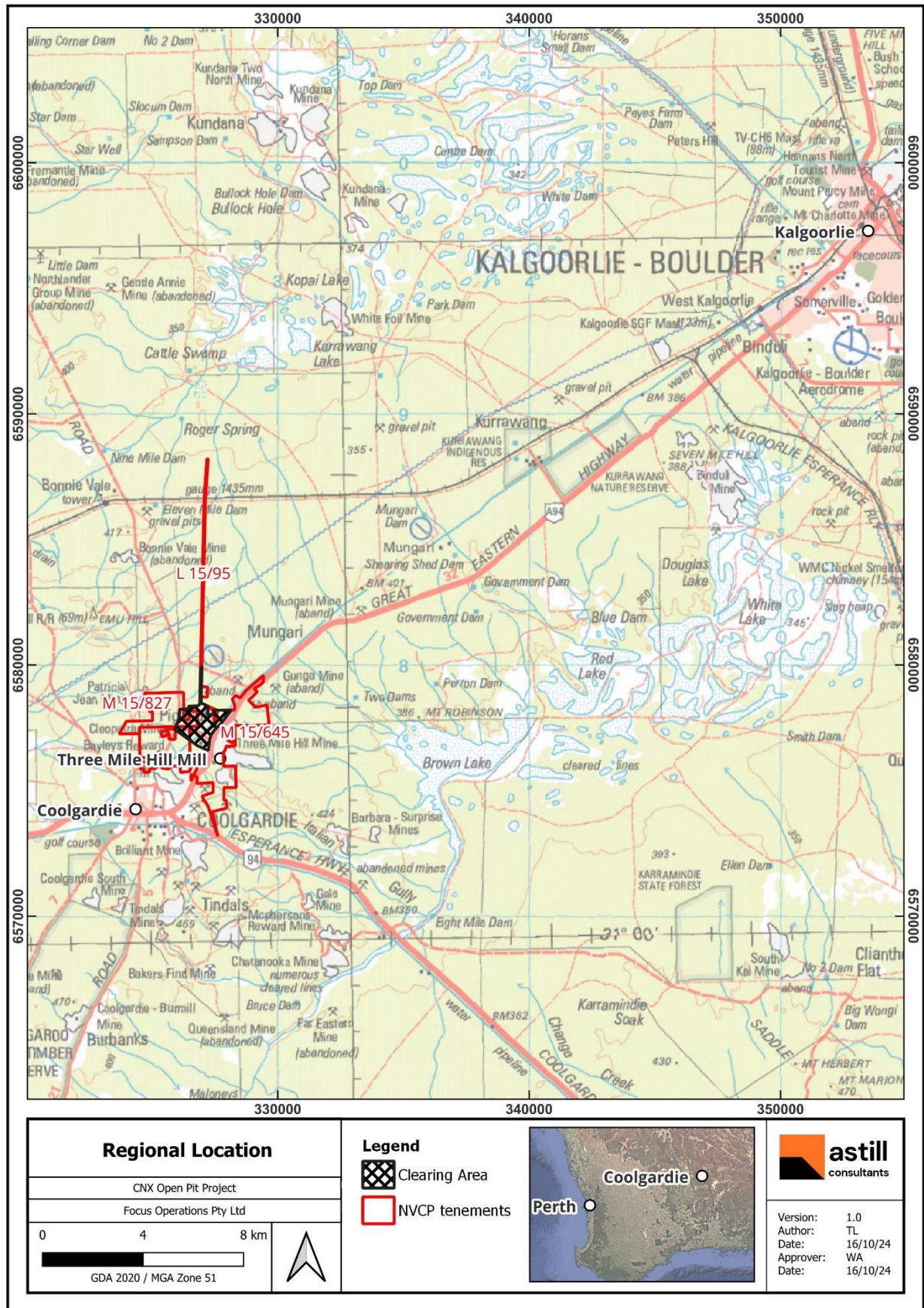


Figure 1: Regional location

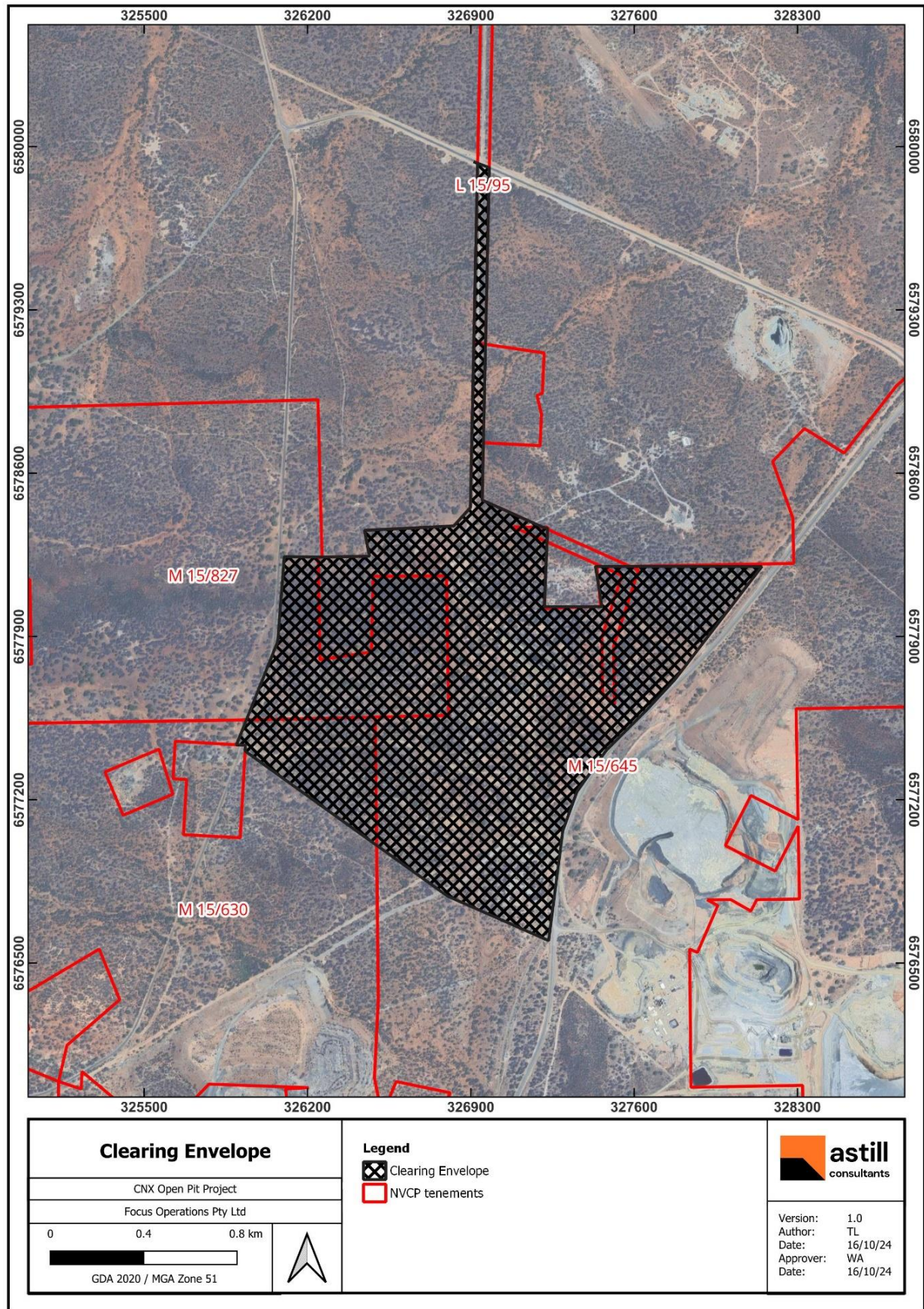


Figure 2: Clearing area

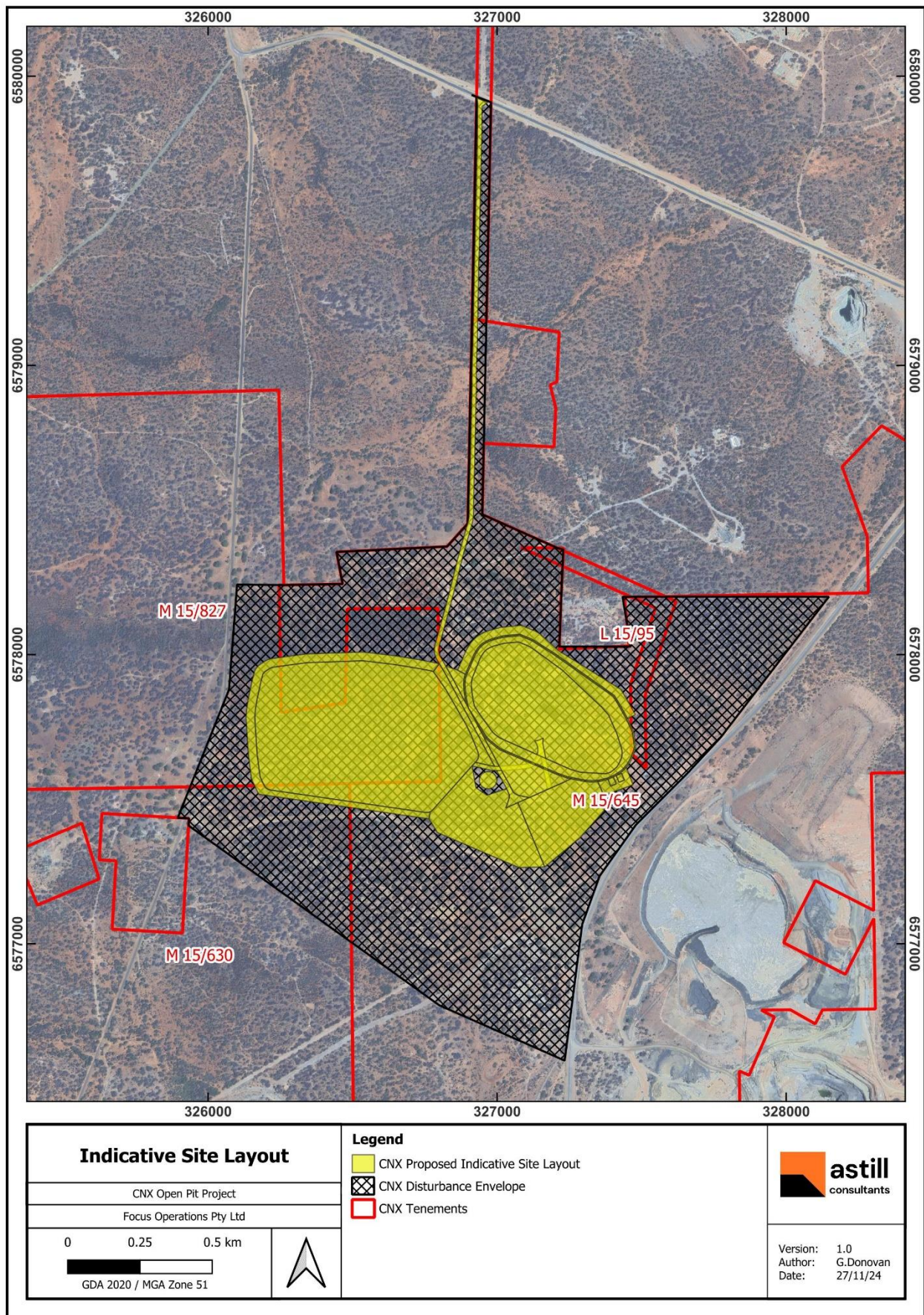


Figure 3: Indicative site plan

2. Environmental Setting

2.1 Climate

Climate of the Eastern Goldfields subregion is characterised as an arid to semi-arid climate of hot summers and mild winters with annual rainfall of approximately 200 – 300 mm (Beard, 1990; Cowan, 2001). Climate data from Coolgardie’s weather station is presented in Figure 4 below.

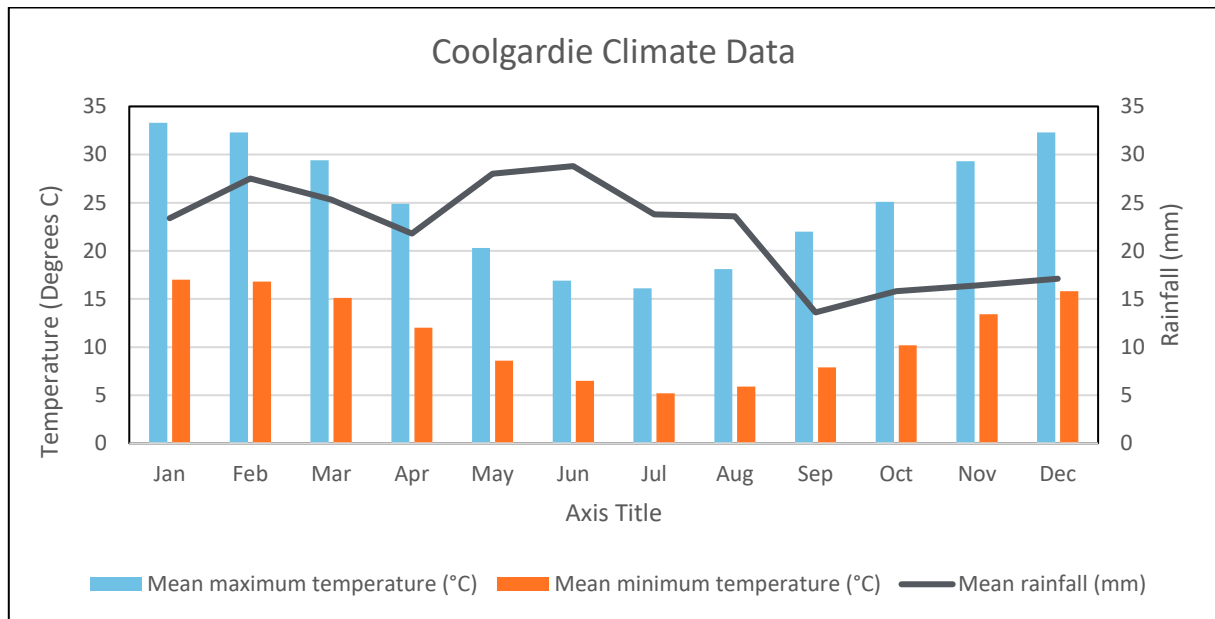


Figure 4: Coolgardie climate data (source: Bureau of Meteorology)

Average long-term annual rainfall is exceeded by average annual evaporation rate (approximately 2,640 mm) by a factor of almost 10 to 1. Evaporation exceeds rainfall in all months of the year, with June having the lowest daily evaporation and January having the highest daily evaporation.

Annual exceedance probability (AEP) is defined as chance that an extreme rainfall event will occur in any given year. Based on AEP calculations by BoM, there is a 1 in 100 (1%) chance that the Project area will receive 50 mm of rain in a 1-hour period, 160 mm for a 24-hour period and 207 mm for a 72-hour period based on AEP calculations (BoM, 2023).

Wind conditions from Kalgoorlie-Boulder airport weather station (#12038) show that morning wind conditions are predominantly easterlies, north-easterlies, and south-easterlies averaging between 12 and 17 km/hr. Afternoon wind direction is variable, and predominantly westerlies, easterlies and south-easterlies averaging between 13 and 18 km / hr.

2.2 Landscape

2.2.1 Bioregion

The Interim Biogeographic Regionalisation of Australia (IBRA) divides Australia into 89 bioregions based on major biological, geographical and geological attributes. These bioregions are subdivided into 419 subregions as part of a refinement of the IBRA framework (IBRA 2010).

The Project occurs within the Coolgardie bioregion and the Eastern Goldfields subregion (COO3). The Eastern Goldfields subregion lies on Yilgarn Craton's 'Eastern Goldfields Terrains'. The relief is subdued and comprises of gently undulating plains interrupted in the west with low hills and ridges of Archaean greenstones and in the east by a horst of Proterozoic basic granulite. Underlying geology is of gneisses and granites eroded into a flat plane covered with tertiary soils and with scattered exposures of bedrock. Calcareous earths are the dominant soil group and cover much of the plains and greenstone areas. A series of large playa lakes in the western half are the remnants of an ancient major drainage line (Cowan, 2001).

Vegetation of the subregion is dominated by mallees, acacia thickets and shrub-heaths on sandplains. Diverse eucalyptus woodlands occur around salt lakes, on ranges, and in valleys. Salt lakes support dwarf shrublands of samphire. Woodlands and *dodonea* shrubland occur on basic granitoides of the Fraser Range.

2.2.2 Soils

The Coolgardie Goldfields are dominated by calcareous earths that cover much of the plains and greenstone areas. Within CGO, surface soils tend to comprise red, moist, and well graded sands and sand gravels with traces of silt and clay. The underlying geology is of gneisses and granites eroded into a flat plane covered with tertiary soils and with scattered exposures of bedrock.

The Project area lies entirely within the BB5 land system, as classified by the soil landscapes and land mapping system provided from DPIRD. BB5 is characterised by rocky ranges and hills of greenstones with basic igneous rocks as well as sandplains with brown calcareous loams.

2.2.2.1 Soil Characterisation

360 Environmental (2021) were commissioned by Focus to complete a Phase 1 acid metalliferous drainage (AMD) material characterisation study of waste rock and physical characteristics, erosion potential and baseline growth medium attributes of soils to support the CNX Project. Accordingly, six soil samples from two soil horizons were collected from the top 1 m from surface, in conjunction with the drilling program to collect deeper waste samples.

Surface soil sample sites were chosen based upon analysis of CNX drilling program weathered profile and the review of known soil landscape mapping which indicates minimal variability in the soil profile across the site. Based on this review, and given the consistency of the surficial soils across larger the Coolgardie Project area, the six samples were collected from surface locations as follows:

- Transported materials (red sandy clays) – Three sites (21CNDD004, 21CNRC010, and 21CNRC007)

- Saprolitic clays (chemically weathered bedrock) – Three sites (20CNRC001, 21CNRD050, and 21CNRC032).

Location of the six soil samples is depicted below in Figure 5, alongside the locations of the waste characterisation drill holes in the study.

Surface soil samples were collected using dedicated sampling equipment to create a test pit to a depth of 1 metre below ground level (mbgl) from undisturbed ground in close proximity to the nominated drillhole collar location. A minimum 1 kg sample was placed directly into a soil bag for transport to the laboratory under Chain of Custody (COC) to SGS Laboratories in Perth, WA.

2.2.2.2 Soil pH, EC, Alkalinity and Acidity

A summary of physicochemical properties are shown below in Table 2.

Table 2. Summary of physicochemical property results

Soil Unit	pH	EC ($\mu\text{S}/\text{cm}$)	Acidity (mg/L)	Alkalinity (mg/L)
Transported material	8.9 – 9.7	1,100 – 3,800	<25	270 – 590
Saprolitic clay	8.3	21 – 35	<25	29 – 39

Based on the physicochemical property testing the following conclusions are drawn:

- The pH of both transported material and saprolitic clay is alkaline. The optimal pH range for most plants is between 5.5 and 7.0, however, locally adapted plant communities may thrive at pH values outside this range.
- EC of transported material is relatively high compared to saprolitic clay. Transported materials are considered saline ($> 400 \text{ mS}/\text{cm}$) whereas saprolitic clay exhibits an EC suitable for topsoil growth medium. Saline transported materials may not be suitable as a growth medium; however, it is noted that exceptions exist within the Kalgoorlie region where salt tolerant species are present. The saprolitic clays in contrast exhibit a low salinity suitable for use as a topsoil material.
- Consistent with reported pH, both soil types do not report any inherent acidity. The transported material exhibits a reasonably elevated alkalinity compared to the saprolitic clay.

2.2.2.3 Particle Size Distribution, Bulk Density, Aggregate Stability and Porosity

The below Table 3 summarises the results of two samples from the particle size distribution (PSD), bulk density, Emerson aggregate stability testing and porosity. Due to other analysed characteristics of 21CNRC001 more closely meeting characteristics of transported material, it is concluded that as part of this preliminary investigation the physical properties of the saprolitic clay has not been evaluated.

Table 3. Physical soil property results summary

Sample ID	PSD (% w/w)				Bulk Density (kg/m^3)	Emerson Class	Porosity (%)
	<63 μm	63 μm – 212 μm	212 μm – 2 mm	>2 mm			
21CNDD004	76	15	7	2	1,200	4	6
21CNRC001	70	17	8	5	1,220	4	6

There is minimal variation in physical characteristic between the two analysed soil samples from within the transported material, with the following conclusions drawn:

- Based on the PSD results, the soil texture can be described as a silty clay with minor sands and gravels. PSD is the primary component affecting soil erodibility. Based on the high proportion of clays and silts in the soils, the wind erodibility rating is low with >30% soil mass exhibiting aggregates >850 μm . The higher proportion of clays and silts, however, suggests the material is more highly susceptible to water erodibility.
- Bulk density is an indicator of soil compaction, which affects infiltration, rooting depth, water holding capacity, soil porosity, the availability of plant nutrients and the activity of soil microbes. With a bulk density of 1,200 kg/m^3 the dominant clay and silt content is below the critical value restricting root growth [1,600 kg/m^3 , (McKenzie et al 2002)] and more likely to hold water. Soils that hold water (e.g. clay loams) are less subject to losses of nutrients through leaching than soils with limited water holding capacity (e.g. gravelly sands).
- Emerson aggregate testing for both soil samples was reported as *Class 4: The remoulded soil does not disperse in water*. Calcium carbonate (calcite) or calcium sulfate (gypsum) is present. Class 4 materials are categorized as not dispersive but prone to slaking. A non-dispersive soil is structurally stable that will not readily disperse into its constituent particles (clay, silt, sand) when placed in water. Dispersed soil colloids in drainage water have the potential to block pores and reduce hydraulic conductivity. Slaking refers to the partial breakdown of soil aggregates in water due to swelling of clay and rapid expulsion of air from pores spaces. Slaking is mostly due to low organic matter and may lead to temporary hard setting on a bare soil surface.
- Porosity of both soil samples was calculated at 6%, representing the difference between the soil specific gravity and the bulk density. The high porosity is reflective of the high clay content of the soils.

2.2.2.4 Cation Exchange Capacity, Total Organic Carbons and Exchangeable Cations

Cation Exchange Capacity (CEC) is a measure of the soils ability to hold cations by electrical attraction. The most abundant exchangeable cations in soil are calcium (Ca), magnesium (Mg), potassium (K), and sodium (Na). The CEC of soils varies with clay content, pH and amount of organic matter (TOC). Table 4 below summarises the CEC and exchangeable cation percentages for the two soil types.

Table 4. CEC, TOC and Exchangeable Cation results summary

Soil Unit	CEC (meq/100 g)	TOC (% w/w)	Exchangeable cations (%)			
			Ca	K	Mg	Na (ESP)
Transported material	47 – 70	0.5 – 1.2	24 – 37	0.3 – 0.6	16.2 – 24.4	15.2 – 38.8
Saprolitic clay	6.5 – 12	0.55 – 0.63	5 – 9.6	0.2 – 2.8	18.2 – 19.5	1.2 – 1.7

The transported material and saprolitic clay both exhibit low TOC (<2 %) but have notably different CEC and exchangeable cation characteristics as follows:

- The transported material exhibits a high CEC (>12 meq/100 g) indicating a high potential for water holding capacity, and nutrient retention and be less susceptible for leaching. The most abundant exchangeable cations are Ca, Na and Mg. This soil type has an ESP >15 indicating it is highly sodic. Sodicity degrades soil properties by weakening the bonds between soil particles, leading to the deterioration of the physical condition of the soils and predisposes them to hard setting when dry and being erodible when wet which also limits infiltration, drainage and plant growth. Further this soil type exhibits a Ca:Mg ratio >2 indicating a more dispersive, poorly structured soil.
- The saprolitic clay exhibits a low CEC (<12 meq/100 g) indicating a low water holding capacity, leaching and the potential for nutrient loss (which may be offset by maintaining organic matter in these soils). This material is also non-sodic exhibiting an ESP <6. The most abundant exchangeable cation by percentage is Mg however the Ca:Mg ratio is >2 indicating a poorly structured soil.

The suitability of these soils to support regrowth may be ameliorated by the addition of organic matter.

2.2.2.5 Nutrients

Plants require nutrients for growth and function, particularly phosphorus, nitrogen and sulfur for optimal photosynthesis, respiration and plant growth. Organic carbon is also an indicator of soil nutrient store and affects water retention and biological processes as it supports microfauna and microflora in the soil, however, as reported, TOC in both soils is low. Table 5 below presents a summary of the nutrient results.

Table 5. Nutrient results summary

Soil Unit	Colwell P (mg/kg)	Bioavailable Sulfur (mg/kg)	Nitrate (mg/kg)	Nitrite (mg/kg)	Ammonia (mg/kg)	TKN (mg/kg)
Preferred Levels	>10	10 – 20	>10			NA
Transported material	<1 – 7	210 – 720	1 – 51	<0.025 – 0.061	<0.5	320 – 950
Saprolitic clay	2 – 4	6 – 23	0.61 – 0.77	0.34 – 0.36	<0.5	310 – 380

The following conclusions are drawn with regards to the inherent nutrient attributes of the soils:

- Both soil types exhibit a low Colwell P (<10 mg/kg) content suggesting that additional phosphorus may be needed to ameliorate plant growth in the soils.
- Except for one transported material sample, which reported an unusually high nitrate concentration (51 mg/kg compared to all other samples less than 1.6 mg/kg), both soil types do not appear to have sufficient concentrations of nitrate, nitrite or ammonia to foster plant regrowth. However, Total Kjeldahl nitrogen (TKN) entirely reflects the presence of organic nitrogen in abundance which is beneficial for regrowth.
- Bioavailable sulfur is abundant in the transported material, grossly exceeding targets for productive soils (10 mg/kg to 20 mg/kg). In contrast, the saprolitic clay exhibits much

lower concentrations although concentrations are within (or slightly above) the ranges for moderately productive soils (6 mg/kg to 7.5 mg/kg).

2.2.2.6 Metals

Metals including aluminium, iron, and manganese were present in greatest abundance in both soil types. Table 6 presents results for key heavy metals that can impede plant growth (NSW DPI, 2004) with respect to the preferred levels and the National Environmental Protection Measure [NEPM (NEPC 2013)] ecological investigation levels (EILs) for areas of ecological significance.

Table 6. Summary of metals results

Soil Unit	Arsenic (mg/kg)	Boron (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
EILs	40	–	370	470	95	280
Preferred Levels	<20	0.5 – 4	2 – 50	<35	1 – 20	1 – 200
Transported material	11 – 110	20 – 63	27 – 46	3 – 6	32 – 190	31 – 44
Saprolitic clay	5 – 26	<2	36 – 450	<2	6 – 7	11 – 18

The following conclusions are drawn with regards to the metals results:

- Most metals were below the EILs for areas of ecological significance except for:
 - Arsenic, chromium and nickel were each reported above EIL in one of the four samples (all in different samples).
 - Copper was reported above EIL in one saprolitic clay sample.
- Transported materials exhibited higher than preferred concentrations of arsenic (one sample), boron and nickel.
- Saprolitic clay generally exhibited concentrations below the preferred metals concentration levels except for the one elevated copper concentration of 450 mg/L.

2.2.2.7 Soil Summary

Aims of the soil characterisation program were to:

- Evaluate potential risks associated with salinity, wind erosion and water erosion; and
- Determine baseline growth medium attributes of each major soil type including nutrient status.

By characterising soils to address each of these aims, the suitability of soils for rehabilitation of the site post closure can be inferred. The soils at this site, whilst having deficiencies, are considered largely suitable for rehabilitation although will require some management to prevent slaking, ameliorate nutrient status, and potentially immobilise elevated metal concentrations.

The key issues relating to soil suitability for rehabilitation and proposed management (where required) are summarised below in Table 7.

Table 7. Summary of soil characterisation findings

Risk Indicator	Transported Materials	Saprolitic Clays
Baseline Growth Medium Characteristics		
Water holding capacity	Likely appropriate	Not assessed
Cation Exchange Capacity	High	Low
Nutrient Status	Poor – low phosphorus and nitrogen content	Poor – low phosphorus and nitrogen content
	Abundant sulfur	Moderate sulfur content
Metal Status	Moderate – some elevated metals that may inhibit regrowth	Appropriate

The main soil unit within this project area is transported material characterised as red sandy clays associated with the 266BB5 soil unit of the Norseman Zone. Soil sampling indicates high sodicity which lends materials to being dispersive. Additionally, these soils have potential for slaking, hard setting and erosion when wet. At the same time, high bulk density and clay content support water retention, appropriate rooting and suggest the soil will be less subject to losses of nutrients through leaching than soils with limited water holding capacity (e.g. gravelly sands).

The secondary soil unit of the saprolitic clays exhibits a moderate salinity and low sodicity.

Transported material is highly dispersive due to both high clay content and high sodicity. The water holding capacity of clay is, however, typically higher than other soil types and if dispersion risks can be controlled should support rehabilitation success in an otherwise arid climate.

Nitrogen, phosphorous and organic carbon (TOC) are below their desirable levels. However, the concentration of these nutrients fluctuates with soil and weather conditions over very short periods of time.

All these soils are considered alkaline. Local plant species are expected to be adapted to this soil pH and should be considered in species selection for rehabilitation.

Analysis of baseline growth medium attributes indicates that other than water holding capacity, the soils are not of a type that will readily support rehabilitation. Use of halophytic plants endemic to the area will likely be required. Rehabilitation may also need to incorporate addition of ameliorants to address deficiencies.

Analysis of baseline growth medium attributes indicates that other than water holding capacity, both soils are not of a type that will readily support rehabilitation without further mitigation, i.e. use of halophytic plants endemic to the area will likely be required. Rehabilitation may also need to incorporate addition of ameliorants to address deficiencies in nutrients.

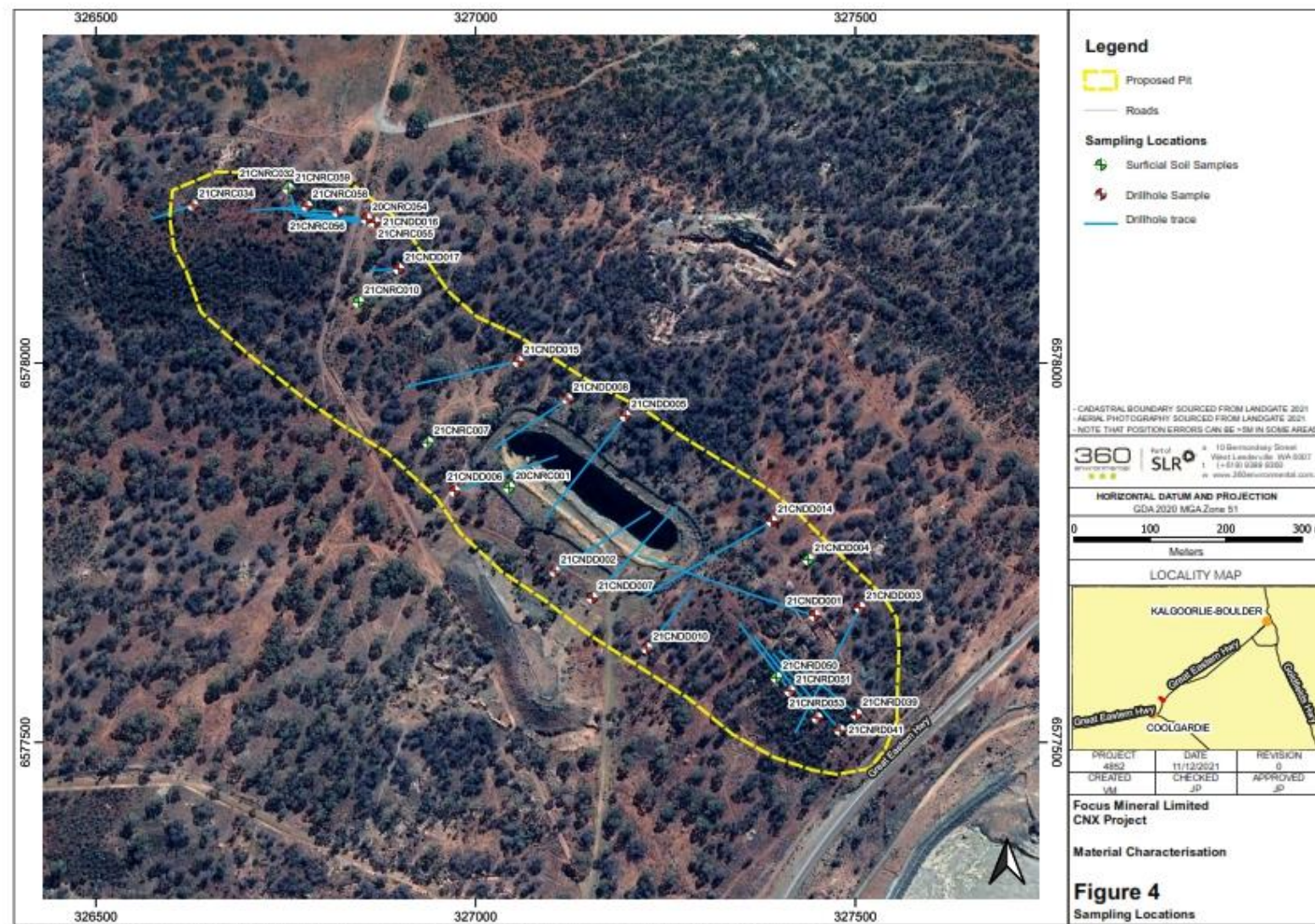


Figure 5: Soil landscape & sampling locations (360 Environmental, 2021)

2.3 Biodiversity

2.3.1 Biological Surveys

Native vegetation clearing is required to facilitate development of the Project. To support this, multiple biological surveys have been undertaken over the wider Coolgardie Operations Project area, with a summary detailed in Table 8 below. Surveys include both desktop and field assessments to determine likelihood of significant vegetation flora and fauna within the Project area. Biodiversity survey areas are shown in Figure 6. Relevant biological surveys are provided in **Appendix B**.

Table 8: Biological surveys

Survey title	Fieldwork date	Limitations identified	Author / reference
Coolgardie <i>Camponotus</i> sp. nr. <i>terebrans</i> Targeted Survey	December 2021	None identified	360 Environmental
Desktop assessment for subterranean fauna for the Coolgardie Gold Project – Alicia, Big Blow, Bonnievale, Brilliant, CNX, Greenfields and Happy Jack Deposit Areas, Coolgardie, Western Australia	May 2022	N/A	Invertebrate Solutions Pty Ltd
CNX Three Mile Hill Coolgardie Gold Project – Biological Surveys	October 2021	None identified	360 Environmental

2.3.2 Vegetation

The Project is located within the Coolgardie Botanical District of the Southwestern Interzone (Beard 1990). This district is comprised primarily of eucalypt woodlands that become more open with an increase in calcareous soils, and an understorey of bluebush and salt bush becomes more evident. The dominant families and genera include the Mimosaceae (*Acacia* spp.), Myrtaceae (*Eucalyptus* spp.), Chenopodiaceae (*Atriplex* spp. and *Maireana* spp.) and Myoporaceae (*Eremophila* spp.).

Pre-European vegetation association dataset (DPIRD, 2019) indicates that the Project area is located within one vegetation association. Areas retaining less than 30% of their pre-European vegetation extent generally experience exponentially accelerated species loss, while areas with less than 10% are considered “endangered” (EPA, 2000). All vegetation associations within the disturbance envelope retain > 95% of their pre-European extent. Development within the disturbance envelope will not significantly reduce the extent of pre-European vegetation associations or increase risk of loss. Vegetation association descriptions are detailed in Table 9 below and shown in Figure 7.

Table 9: Pre-European vegetation associations

Vegetation association	Structural description	Floristic description
Coolgardie 9	Woodland Other	Wheatbelt; York gum, salmon gum etc. (<i>E. loxophleba</i> , <i>E. salmonophloia</i>). Goldfields; gimlet, redwood etc. (<i>E. salubris</i> , <i>E. oleosa</i>). Riverine; rivergum (<i>E. camaldulensis</i>). Tropical; messmate, woolybush.

2.3.2.1 Vegetation Communities

Vegetation assessments were undertaken via establishment of strategically placed areas to ensure all distinct vegetation communities were characterised. Four vegetation communities were mapped within the 360 Environmental (2022) survey. Vegetation communities within the Project area are described in Table 10 below.

Table 10: Vegetation communities

Survey Area	Name	Landscape position	Community description
360 Environmental (2022)	EsppEiiSaa	Plains, low hills	<i>Eucalyptus salmonophloia</i> mid isolated trees over a mosaic of <i>E. celastroides</i> , <i>E. clelandiorum</i> , and <i>E. torquata</i> low open woodland over <i>Eremophila interstans</i> subsp. <i>interstans</i> (<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>) mid isolated shrubs over <i>Senna artemisioides</i> subsp. <i>artemisioides</i> , <i>S. artemisioides</i> subsp. <i>filifolia</i> , and <i>Atriplex vesicaria</i> low open shrubland.
	EsEiiAv	Plains	<i>Eucalyptus salmonophloia</i> mid open woodland over <i>Eremophila interstans</i> subsp. <i>interstans</i> (<i>Eremophila parvifolia</i> subsp. <i>auricampi</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i>) tall to mid isolated shrubs over <i>Atriplex vesicaria</i> low open shrubland.
	AcEoaDI	Rocky hills	<i>Acacia collegialis</i> (<i>A. acuminata</i>) tall shrubland over <i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i> , <i>E. georgei</i> , <i>A. tetragonophylla</i> (<i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Exocarpos aphyllus</i>) mid shrubland over <i>Dodonea lobulata</i> (<i>Atriplex vesicaria</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i>) low shrubland.
	EtEaEpa	Plains, lower slopes of rocky hills	<i>Eucalyptus torquata</i> low open woodland over <i>Exocarpos aphyllus</i> mid isolated shrubs over <i>Eremophila parvifolia</i> subsp. <i>auricampi</i> , <i>Westringia rigida</i> , and <i>Scaevola spinescens</i> (<i>Olearia muelleri</i>) low open shrubland.
	Cleared	Plains	Cleared or historically cleared areas including mine pits and borrow pits (often filled with water), bitumen roads, and dirt tracks. Some of these areas were showing signs of revegetation. With occasional <i>Eucalyptus griffithsii</i> , <i>Atriplex vesicaria</i> , <i>Maireana</i> spp., and assorted weed species.

2.3.2.2 Vegetation Condition

Some areas within the Project area have been subjected to medium to high level disturbances, including historical small and large scale mine excavations, makeshift tracks, cattle grazing, with weeds and litter also evident. As such, vegetation condition within the overall survey area was predominantly rated Excellent and ranged to Completely Degraded (where all vegetation had been completely cleared) according to the scale given in Keighery (1994).

As surveyed areas encompassed numerous project areas, the below table presents the vegetation condition areas representative of vegetation within the CNX clearing envelope area boundary only, as vegetation outside of the boundary will not be affected.

Vegetation condition is shown below in Figure 8.

Table 11: Vegetation condition

Survey Area	Vegetation Condition	Area (ha)	% of total
360 Environmental (2022)	Excellent	99.88	43.92
	Very Good	85.65	37.66
	Good	20.52	9.02
	Completely Degraded	21.39	9.41
	Total	227.44	100

*Numbers have been rounded to two decimal places for simplicity of data

2.3.2.3 Significant vegetation

Desktop searches identified no threatened or priority ecological community within 50 km of the Project area.

The nearest Environmentally Sensitive Area (ESA) is the Rowles Lagoon Conservation Park, located approximately 62km north-west of the Survey Area.

The project area is not located within any listed conservation areas. The nearest conservation area is Kangaroo Hills Timber Reserve, which is situated approximately 6 km southwest of the Project.

Nearby ESAs are shown below in Figure 9.

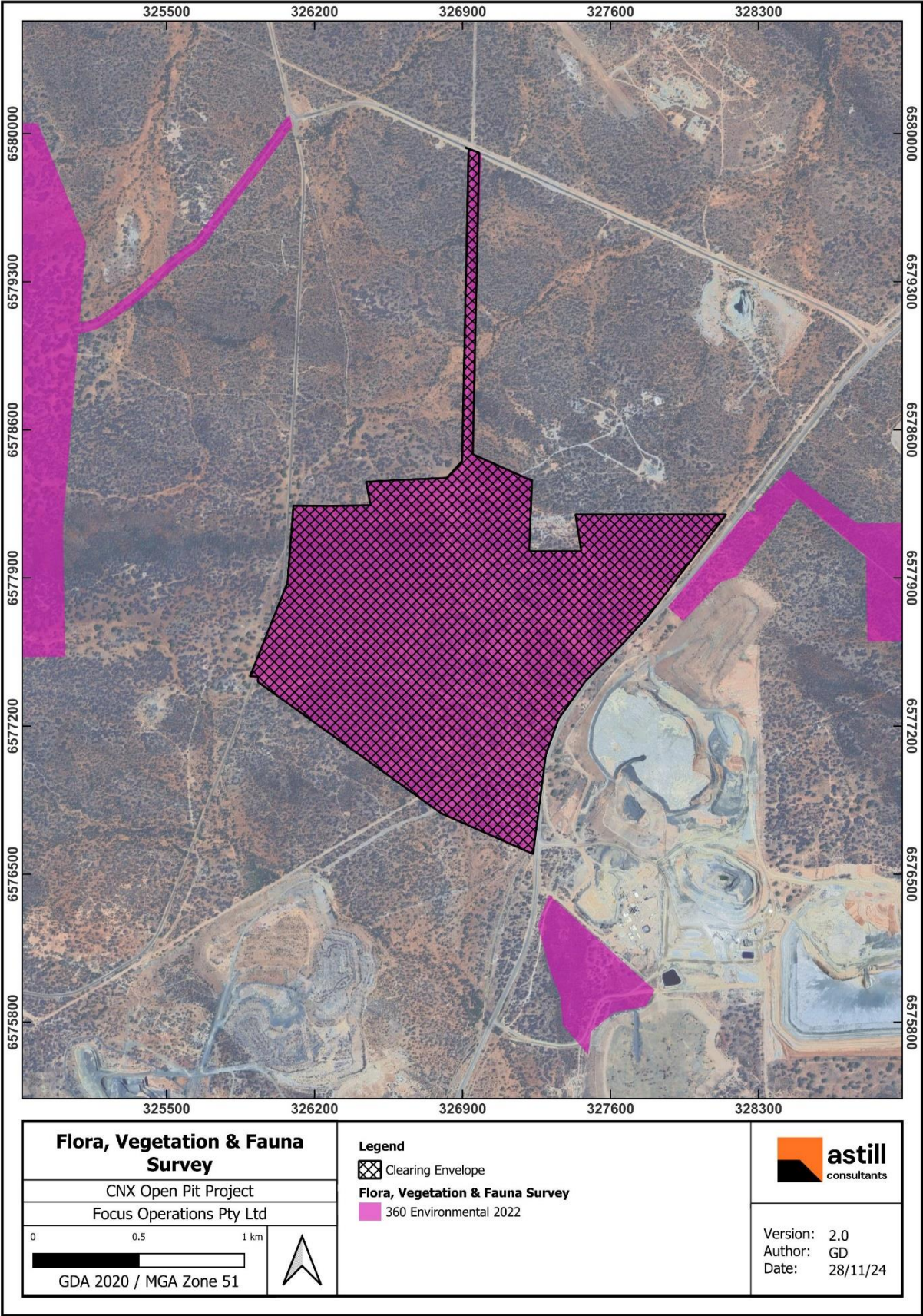


Figure 6. Flora, Vegetation & Fauna Survey Area

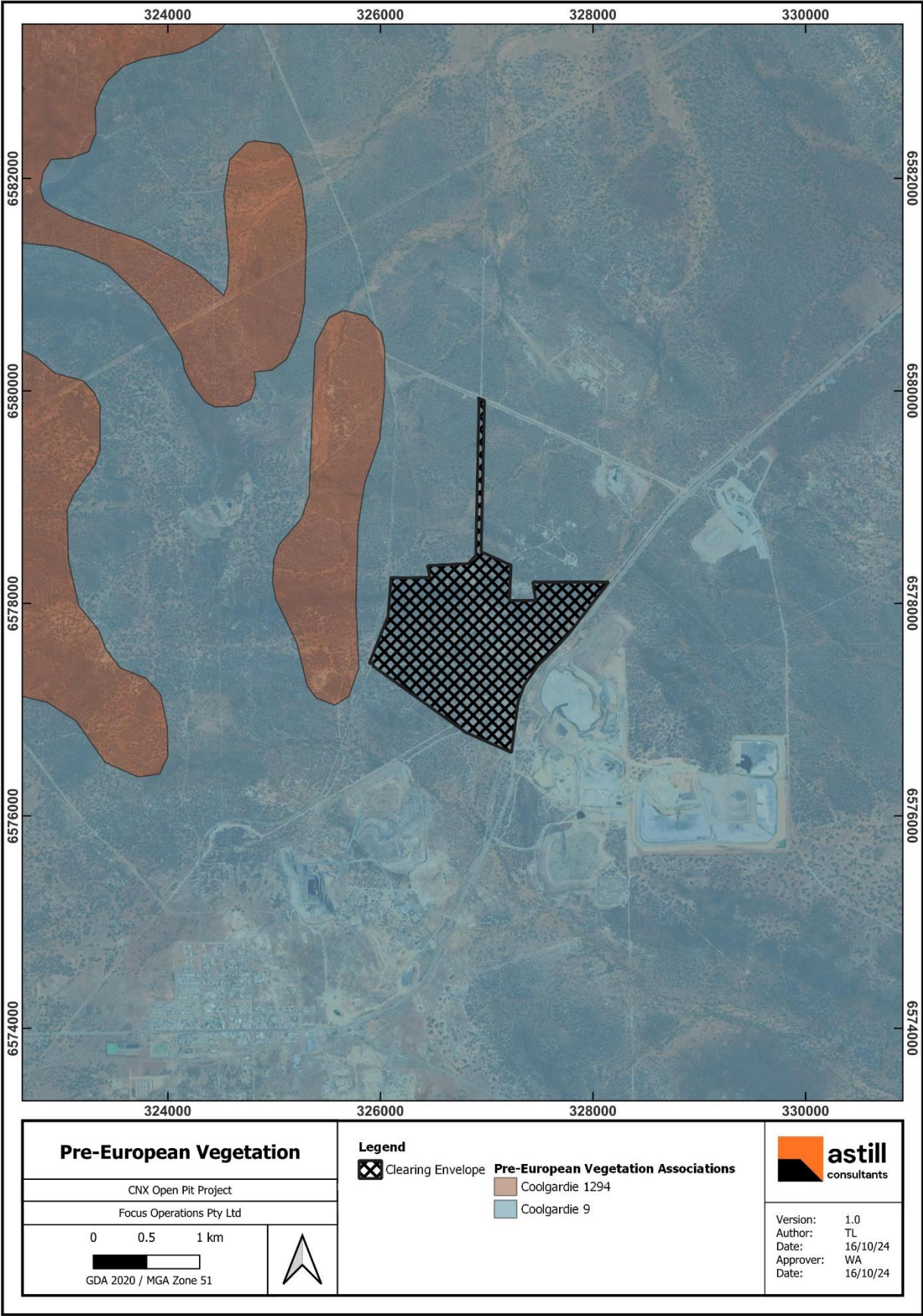


Figure 7: Pre-European vegetation associations



Figure 8: Vegetation condition

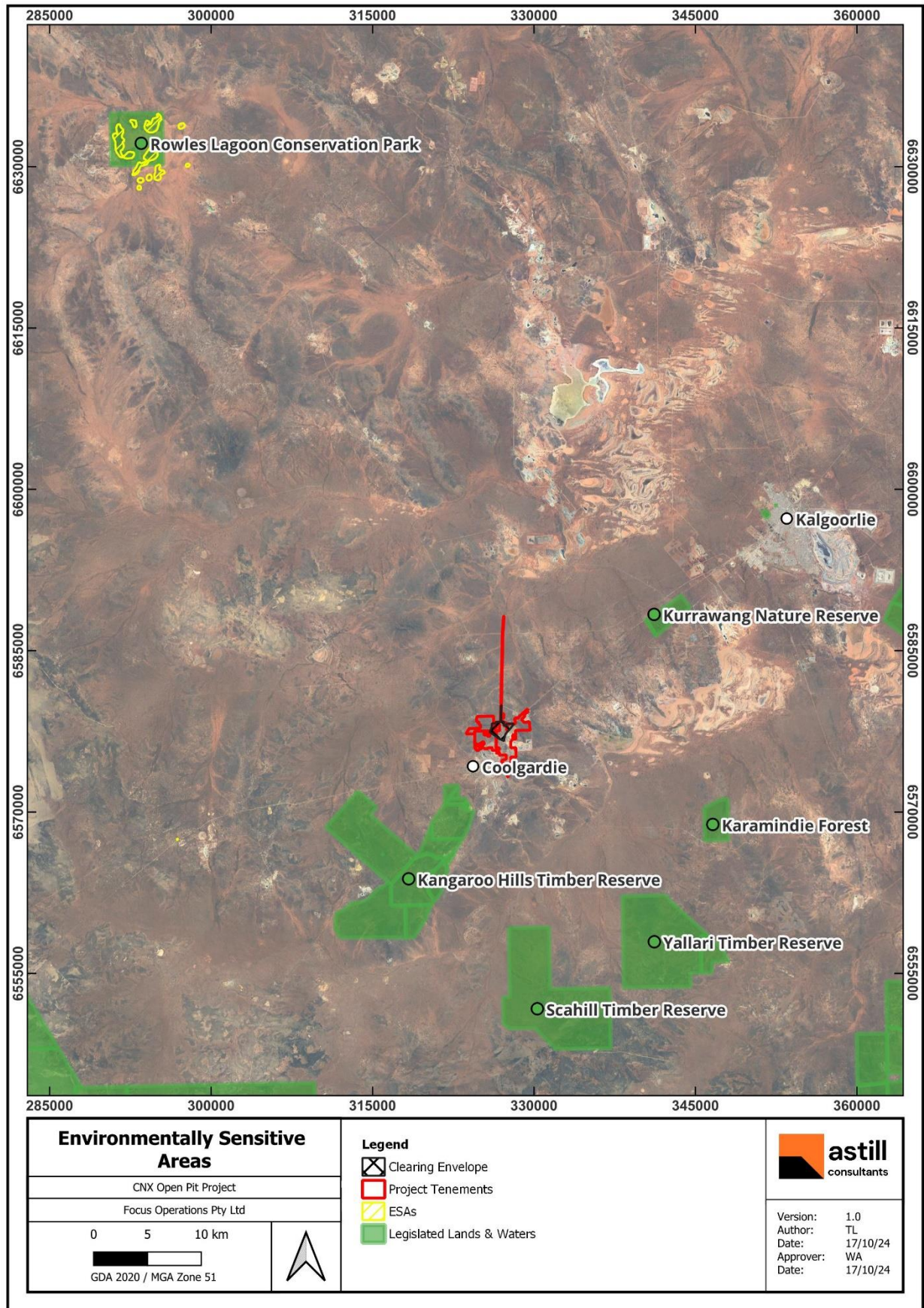


Figure 9: Environmentally sensitive areas

2.3.3 Flora

360 Environmental (2022) surveyed a broader area including Bonnievale, Brilliant, CNX, Three Mile Hill, Lady Loch, Perseverance, Dreadnought and Alicia project areas and, accordingly, the larger number of taxa identified (149) includes species from outside the Project area that is the focus of this application. Dominant families included Chenopodiaceae (26 taxa) and Myrtaceae (15 taxa). The most dominant genera were *Eucalyptus* (12 taxa) and *Eremophila* (10 taxa).

The suite of flora taxa recorded during the surveys is considered typical for the area (Beard 1990). A summary of the flora survey is presented in Table 12 below.

Table 12: Flora abundance

Survey	Species number (field search)				
	Total	Genera	Families	Unidentified	Dominant families
360 Environmental (2022)*	149	78	35	18	Chenopodiaceae (26 taxa) Myrtaceae (15 taxa)

*includes areas outside of the Project area within broader CGO survey area

2.3.3.1 Threatened and Priority Flora

Based on database searches, a total of 90 flora species of conservation significance had possibility of occurring within 50 km of the Project area, comprising of three Threatened taxa, 27 Priority 1, 14 Priority 2, 40 Priority 3, and six Priority 4 species. (360 Environmental, 2022).

No Threatened (Declared Rare) or Priority Flora or Ecological Communities (TECs or PECs) were recorded during field surveys of the Project area.

Eighteen taxa could not be identified to species level because they were sterile at the time of survey during the 360 Environmental survey. None of the unknown flora taxa were analogous to Threatened or Priority flora taxa identified by the database searches as likely to occur within the survey area, nor were they representative of flora of other significance.

One Priority taxon was recorded within the Survey Area. A population consisting of approximately 10 individuals of *Austrostipa blackii* (P3) was recorded in quadrat C1Q01. This taxon is a tufted, perennial, grass, typically growing up to 1 m high that flowers between September and November. **At the time of the field survey, this species was listed as a Priority 3, but has since been downgraded in status to "Not Threatened."**

Therefore, there are no Threatened or Priority species in the clearing area.

2.3.3.2 Introduced Flora

A total of four introduced flora species were recorded in the 360 Environmental (2022) survey of CNX project area. A summary of introduced flora identified within the survey area are provided in Table 13 below.

Table 13: Introduced flora

Survey Area	Species name	Common name	WoNS
360 Environmental (2022)	<i>Carrichtera annua</i>	Ward's Weed	No
	<i>Centaurea melitensis</i>	Maltese Cockspur	No
	<i>Nicotiana glauca</i>	Tree Tobacco	No
	<i>Rumex vesicaria</i>	Ruby Dock	No

2.3.4 Fauna

Fauna surveys over the Project area have included basic fauna assessments (previously known as Level 1 Fauna Assessments), targeted survey for *Camponotus* sp. nr. *terebrans*, and a subterranean fauna desktop review. Fauna surveys have demonstrated that most fauna identified during field observations are common and widespread, with fauna abundance by taxa summarised in Table 14 below.

Table 14: Fauna abundance


Survey	Species number (desktop search)	Species number (field search)				
		Total	Amphibians	Birds	Mammals	Reptiles
360 Environmental (2022)*	311	61	0	42	10	9




*includes areas outside of the Project area within broader CGO survey area

2.3.4.1 Fauna habitat

Broad fauna habitats have been mapped in the Project area and described in each biological survey. Fauna habitats are considered relatively common and representative of the local area and are widespread through the region. Fauna habitats with example images are summarised in Table 15 below.

Table 15: Fauna habitats

Survey	Habitat type	Description	Example image
360 Environmental (2022)	Eucalyptus woodland	Mixed <i>Eucalyptus</i> sp. woodlands over <i>Acacia</i> sp. <i>dodonea</i> sp. <i>Eremophila</i> sp. or <i>Melaleuca</i> sp. mixed shrublands. Peeling bark, woody debris, leaf litter and hollow logs were observed throughout this habitat type. These microhabitat features provide shelter for small reptiles and mammals. The canopy of trees provides shelter and foraging habitat for birds.	

Survey	Habitat type	Description	Example image
	Acacia Shrubland	<i>Eucalyptus griffithsii</i> low open woodland over <i>Acacia hemiteles</i> and <i>Dodonaea stenozyga</i> (<i>A. jennerae</i> , <i>Alyxia buxifolia</i>) mid shrubland over <i>Senna artemisioides</i> subsp. <i>filifolia</i> and <i>Atriplex vesicaria</i> (<i>Olearia muelleri</i>) low open shrubland. Hollow logs, leaf litter, and peeling bark are present throughout this habitat type. These microhabitat features provide shelter and foraging opportunities for small reptiles, birds, and mammals. Conservation significant fauna such as the Malleefowl (<i>Leipoa ocellata</i>) and the Western Quoll, Chuditch (<i>Dasyurus geoffroii fortis</i>) may use this habitat. Habitat condition varied from disturbed to very good. Evidence of disturbance includes previous mining activity, vehicle tracks, litter, and the presence of introduced fauna.	
	Rocky slopes	<i>Acacia collegialis</i> (<i>A. acuminata</i>) tall shrubland over <i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i> , <i>E. georgei</i> , <i>Acacia tetragonophylla</i> (<i>Senna artemisioides</i> subsp. <i>filifolia</i> , <i>Exocarpos aphyllus</i>) mid shrubland over <i>Dodonaea lobulata</i> (<i>Atriplex vesicaria</i> , <i>Ptilotus obovatus</i> var. <i>obovatus</i>) low shrubland. Leaf litter, peeling bark, rock crevices, and woody debris provide shelter for small reptiles and mammals. Shrublands provide shelter and foraging habitat for birds, reptiles and mammals.	
	Disturbed areas	Cleared or historically cleared areas including mine pits and borrow pits (often filled with water), bitumen roads, and dirt tracks. .	

2.3.4.2 Significant fauna

Based on combined desktop and field assessments across surveys, an assessment was carried out on likelihood of significant fauna species occurring in the Project area. Scat was found within during the survey, initial classification was of the Western Quoll scat however further advise has classified the scat as unidentified due to limited scope to complete genetic testing. Malleefowl

were not recorded during this survey, although they have been listed as a high likelihood of occurring in the area when considering habitat types noted in the field.

It should be noted that while habitats onsite are considered possibly suitable, some or all may be marginal in extent/quality and therefore fauna species considered as possibly occurring may in fact only visit the area for short periods as infrequent vagrants. A summary of significant fauna likelihood is detailed in Table 16 below.

Table 16: Significant fauna likelihood

Species name	Common name	Conservation status		Assessment	Likelihood
		EPBC Act	BC Act		
<i>Leipoa ocellata</i>	Malleefowl	VU	VU	Recent records within 1km of the survey area. Suitable habitat present, unburned mallee and woodland with abundant litter and low scrub.	High
<i>Apus pacificus</i>	Pacific Swift (Fork-tailed Swift)	MI, MA	IA	Three records within 100km of the survey area. Species may fly over the survey area as it covers a wide range of airspace over varied habitat.	Low
<i>Dasyurus geoffroyi fortis</i>	Chuditch	VU	VU	Some suitable habitat present – mallee shrubland. Unidentified scat collected during survey, not genetically tested to confirm ID. SLR have advised Chuditch would not occur within the survey area. Further assessments are being completed via camera trap surveys to confirm utilisation of habitat. See appendix C.	Low
<i>Jalmenus aridus</i>	Inland Hairstreak		P1	Nearest record 19km NE of the survey area. Majority of habitat present within the survey area is unsuitable for this species. Further advice on likelihood of presence confirmed impractical to test presence further. See appendix D.	Low
<i>Ogyris subterrestris petrina</i>	Arid Bronze Azure Butterfly	CR	CR	Targeted survey carried out for host ant <i>Camponotus sp. nr. Terebrans</i> . No ants found. See appendix B(2).	Low
<i>Falco hypoleucos</i>	Grey Falcon	VU	VU	No recent nearby records. Some records within 100km of the survey area. Preferred nesting habitat absent. May use survey area for hunting.	Low
<i>Calyptorhynchus latirostris</i>	Carnaby's Cockatoo	EN	EN	This species was recorded 30km NE of the survey area in Kalgoorlie. However, these records occur well outside the known distribution of the species and likely represent a vagrant occurrence of the taxon.	Low
<i>Thinornis cucullatus</i>	Hooded Plover (Hooded Dotterel)	MA	P4	Closest record 42km NE of the survey area. No suitable habitat within the survey area.	Low

Species name	Common name	Conservation status		Assessment	Likelihood
		EPBC Act	BC Act		
<i>Motacilla cinerea</i>	Grey Wagtail	MI, MA	IA	Survey area is well outside the distribution of this species. Some suitable habitat present in parts, i.e. water bodies.	Low
<i>Pezoporus occidentalis</i>	Night Parrot	EN	CR	No records within 100km of the survey area. No suitable habitat within the survey area.	Low
<i>Actitis hypoleucos</i>	Common Sandpiper	MI, MA	IA	Three recent records within the survey area. Some suitable habitat present, i.e. interior wetlands – narrow muddy edges of billabongs.	Previously recorded
<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	MI, MA	IA	Nearest record 15km NW of the survey area. Suitable habitat present, i.e. water bodies.	Medium
<i>Calidris alba</i>	Sanderling	MI, MA	IA	Nearest record in Kalgoorlie. No suitable habitat within the survey area.	Low
<i>Calidris ferruginea</i>	Curlew Sandpiper	CR, MI, MA	CR, IA	Nearest record 15km NW of survey area. Suitable habitat within the survey area, i.e. around lakes, dams.	Medium
<i>Calidris melanotos</i>	Pectoral Sandpiper	MI, MA	IA	Survey area is well outside the distribution of this species area. Some suitable habitat present in parts, i.e. inland water bodies.	Low
<i>Calidris ruficollis</i>	Red-necked Stint	MI, MA	IA	Nearest record 15km NW of survey area. No suitable habitat within the survey area, i.e. mudflats.	Low
<i>Tringa brevipes</i>	Grey-tailed Tattler	MI, MA	IA, P4	Nearest record 20km NE of survey area. No suitable habitat within the survey area, i.e. coastal.	Low
<i>Tringa glareola</i>	Wood Sandpiper	MI, MA	IA	Nearest record 30km NE of the survey area. Suitable habitat within the survey area, i.e. freshwater wetlands.	Medium
<i>Tringa nebularia</i>	Common Greenshank	MI, MA	IA	Recent record within the survey area. Suitable habitat within the survey areas, i.e. temporary inland wetlands.	Previously recorded
<i>Plegadis falcinellus</i>	Glossy Ibis	MI, MA	IA	Only record 27km NE of the survey area in Kalgoorlie. Some suitable habitat present, i.e. temporary wetlands.	Medium
<i>Myrmecobius fasciatus</i>	Numbat	EN	EN	No nearby records. Some suitable habitat is present, i.e. eucalypts and wandoo woodland. The only natural population exist well outside the survey area in the far north of WA.	Low
<i>Macrotis lagotis</i>	Bilby	VU	VU	No nearby records. No suitable habitat present.	Low

*Conservation Status: State – Listed under Biodiversity Conservation Act 2016 or Department of Biodiversity, Conservation and Attractions Conservation List, Federal – Listed under Environmental Protection and Biodiversity Conservation Act 1999. CR – Critically Endangered, EN – Endangered, VU – Vulnerable, IA/MI – Migratory, MA – Marine, P – Listed as Priority by DBCA.

2.3.4.3 Short Range Endemics

Habitat types in the Project area are regionally common and with a high degree of habitat connectivity, and therefore it is unlikely that any short-range endemic (SRE) species is restricted to the Project area.

2.3.4.4 Subterranean fauna

Invertebrate Solutions (2021) undertook a desktop assessment for subterranean fauna (stygo fauna and troglodyte fauna) for CGO, including the Project area. A combination of regional information, geological, hydrogeological and database searches were used to inform likelihood of subterranean fauna in the project area. This assessment concluded that there was little habitat for subterranean fauna present due to lack of fracturing in fine-grained geological units (Invertebrate Solutions, 2021).

2.3.4.5 Introduced fauna

Introduced fauna are widely established within the regional area. A total of seven introduced fauna species were recorded within the 360 Environmental (2022) survey area. A summary of introduced fauna is in Table 17 below.

Table 17: Introduced fauna

Survey Area	Species Name	Common Name
360 Environmental (2022)	<i>Capra hircus</i>	Goat
	<i>Bos primigenius taurus</i>	European Cattle
	<i>Canis familiaris</i>	Dog
	<i>Vulpes vulpes</i>	Red fox
	<i>Equus caballus</i>	Horse
	<i>Felis catus</i>	Cat
	<i>Oryctolagus cuniculus</i>	Rabbit

2.4 Hydrology

There are no surface water resources within the study area. The site is within the Salt Lake Basin of the Western Plateau division. The study area is in the Lake Lefroy catchment and Raeside-Ponton catchment. A minor non-perennial watercourse flows through the site from west to east. Local-scale ephemeral drainage around the Project area is shown below in Figure 10.

Significant water bodies in the regional vicinity of the project include Brown Lake (7.5 km east), Red Lake (12.5 km northeast), White Flag Lake (28 km northeast) and recreational Lake Douglas (20 km northeast). Clearing within watercourses would be likely to have minor impacts to these ephemeral drainage lines, however, clearing at CNX will not impact any of these surface water bodies.

Drainage diversion infrastructure will be installed to ensure that flood risks to the Project at a local scale are mitigated whilst preserving natural flow paths.

Regional surface hydrology drainage is shown below in Figure 11.

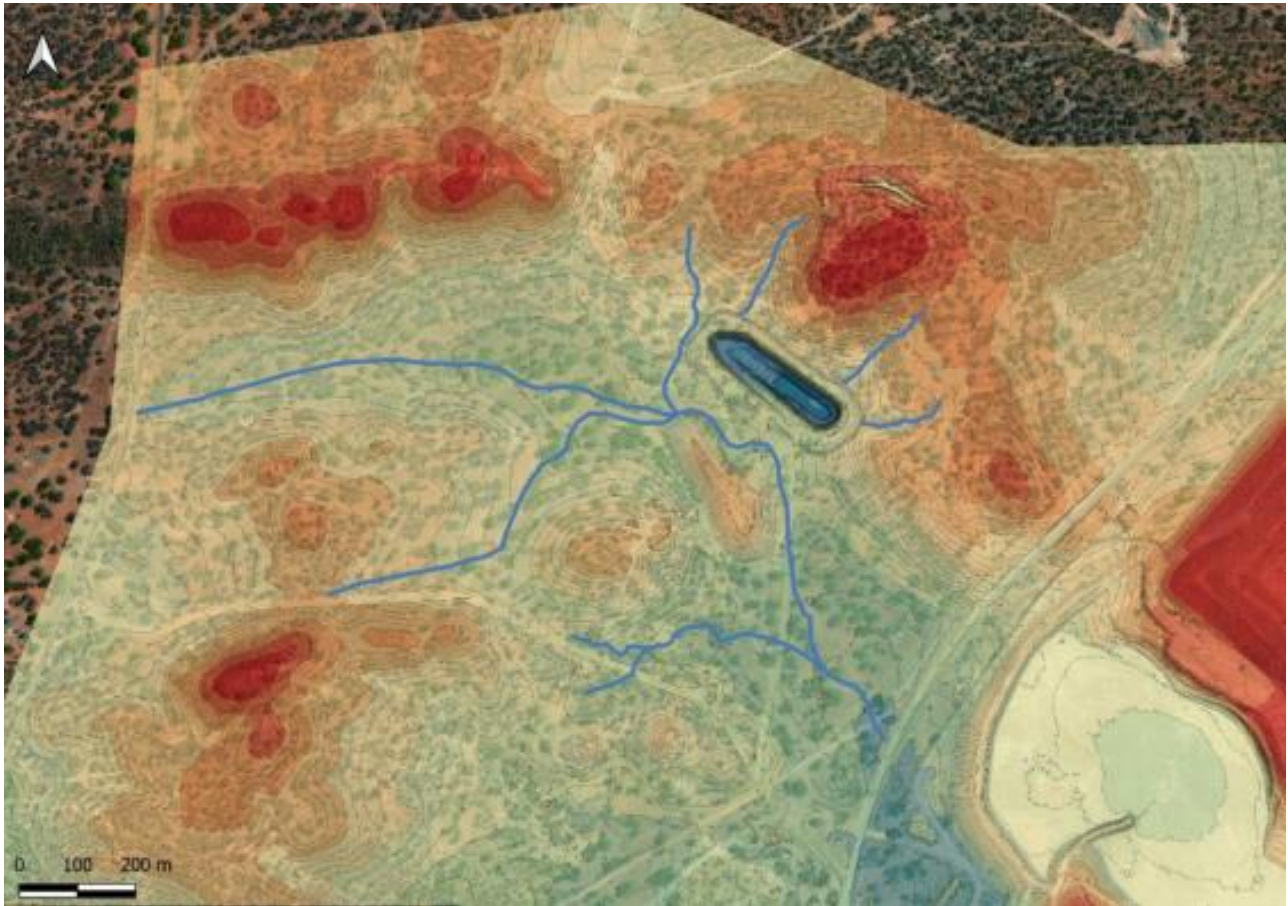


Figure 10. Local scale drainage around the CNX project area, as modelled by 360 Environmental (2023)

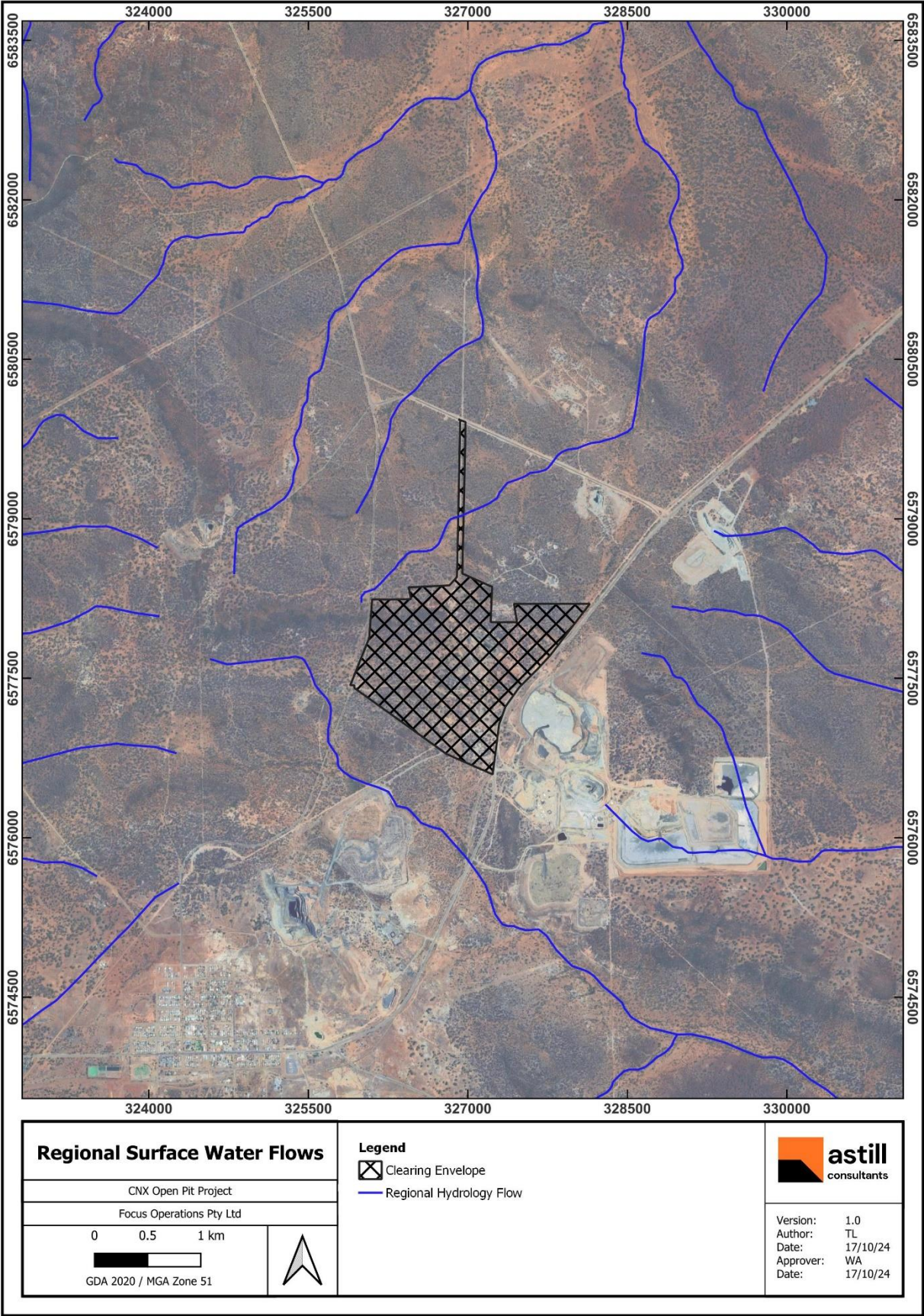


Figure 11: Regional surface water hydrology

2.5 Hydrogeology

The greenstone rocks in the Coolgardie area are described as generally hosting local aquifers containing saline to hypersaline groundwater (Kern, 1995). Groundwater storage is limited to secondary porosity present in discrete, local-scale fractures. Based on limited interconnectivity of the aquifers, recharge is likely to be local (Kern, 1995).

Groundwater levels in the project area are highly variable, ranging from 5 to 35 metres, and TDS ranges between 30,000 to 151,000 mg / L, which is considered hypersaline. Groundwater has limited use outside of mining and negligible hydrogeological impacts are anticipated to occur from clearing activities.

2.6 Heritage

2.6.1 Native Title

There is no Native Title Determination across the Project area.

There is one registered Native Title claim over the Project area, Marlinyu Ghoorlie Claim (WC2017/007). Focus is currently negotiating an agreement with the Marlinyu Ghoorlie Native Title Claimant group.

2.6.2 Aboriginal Heritage

A search of DPLH Aboriginal Cultural Heritage Inquiry System (ACHIS) in October 2024 identified that one Registered Aboriginal Site interacts with the disturbance envelope as do two Lodged places, but their boundaries are not located within the clearing envelope as confirmed by internal on-ground surveys coordinated by Focus with relevant Traditional Owners.

Table 18. Registered and Lodged Aboriginal Heritage Places on DPLH ACHIS database

DPLH Place ID	Status	Name	Comment
32761	Lodged	Roundhead/Ngumarn	Women's only site Intersects tenement M15/630
3009	Registered	Kurkutjutana	Intersects southern portion of tenement M15/645 and is not located within the clearing permit disturbance envelope
39398	Lodged	NCA-03	Burial place Intersects southern portion of tenement M15/645 and is not located within the clearing permit disturbance envelope

Table 19. Aboriginal Heritage Surveys undertaken by Focus

Year	Company	Report	Survey Type	Representatives	Comment
August 2022	R & E. O'Connor	Aboriginal Heritage Surveys of Bonnievale, Patricia Jean and CNX Haul Road	Archaeological and ethnographic	Brandon Spurling, Adam Graham, Jaseah Hodder, Graham Stokes, Mary Strickland, Anne Joyce Nudding, Elizabeth Sambo, Marcia Coleman, Gina Sambo	Aboriginal heritage considerations not deemed an impediment on proposed CNX Haul Road
July 2022	Terra Rosa Consulting	Archaeological and ethnographic work area clearance heritage survey of the Tindals, Bonnievale and Patricia Jean project areas with	Archaeological and ethnographic	Lorna Watene, Corey Logan, Shahnece Kearing, Ranjol Kearing, Juaneesa Champion, Annetta Coleman, Cindy Sambo, Shane Champion, Alex Champion, Tessa	CNX haul road section cleared to proceed

		Marlinyu Ghoorlie Traditional Owners		Sambo, Samantha Tucker, Billie Logan, Brian Champion Snr, Henry (Richard) Dimer, Darren Indich, Betty Logan, Maxine Dimer, Norma Dimer, Shirley Trott, and Angus Reynolds and Declan Gammon (TR)	
October 2021	Terra Rosa Consulting	An archaeological and ethnographic work area clearance heritage survey of Three Mile Hill/CNX and P15/5987 and a work program clearance heritage survey of Kangaroo Hills Timber Reserve	Archaeological and ethnographic	Sean Dimer, Nathan Tucker, Robert Trott- Dann, Jasceitta Champion, Serina Indich (Kickett), Dellie Champion, Fiona Blaszkiewicz, and Ben Fordyce and Lilia Alpers (TR)	CNX main survey area cleared to proceed
October 2021	R & E. O'Connor	Aboriginal Heritage surveys of Focus Minerals Limited 2021 – Designated areas and drill targets	Archaeological and ethnographic	Brandon Spurling, Adam Graham, Graham Stokes, Marj Strickland, Joyce Nudding, Albert Nudding, Trevor Donaldson, Jayden Donaldson, Brooke Donaldson, Elizabeth Sambo, Lonnie Coleman, Tessa Sambo, Gina Sambo, Poyana Coleman	Aboriginal heritage considerations not deemed an impediment at CNX project area

Based on the above information, and confidential surveys and correspondence maintained by Focus, it is determined that the clearing envelope will not interact with any of these Aboriginal heritage sites and mining activities will not impact on heritage values.

Focus continues to maintain engagement with traditional owners and Native Title claimants on a regular basis, with intent to foster a robust relationship built on mutual respect and understanding for both parties to continue to work together alongside mining operations.

2.6.3 European Heritage

A search of State Heritage Office inHerit database in October 2024 showed no Statutory Heritage Listings within the disturbance envelope.

The nearest Statutory Heritage Listing, Carins Camp (Place number: 7442) is located approximately 700m southwest of the disturbance area boundary. The infrastructure at Carins

Camp has been relocated to Coolgardie Town Site for management, and as such the current status of the site is unclear. Notwithstanding Focus is aware of this historical location, and it will not be impacted by clearing or mining activities associated with the CNX project.

The location of Carins Camp, and DPLH Registered and Lodged boundaries are shown below in Figure 12.

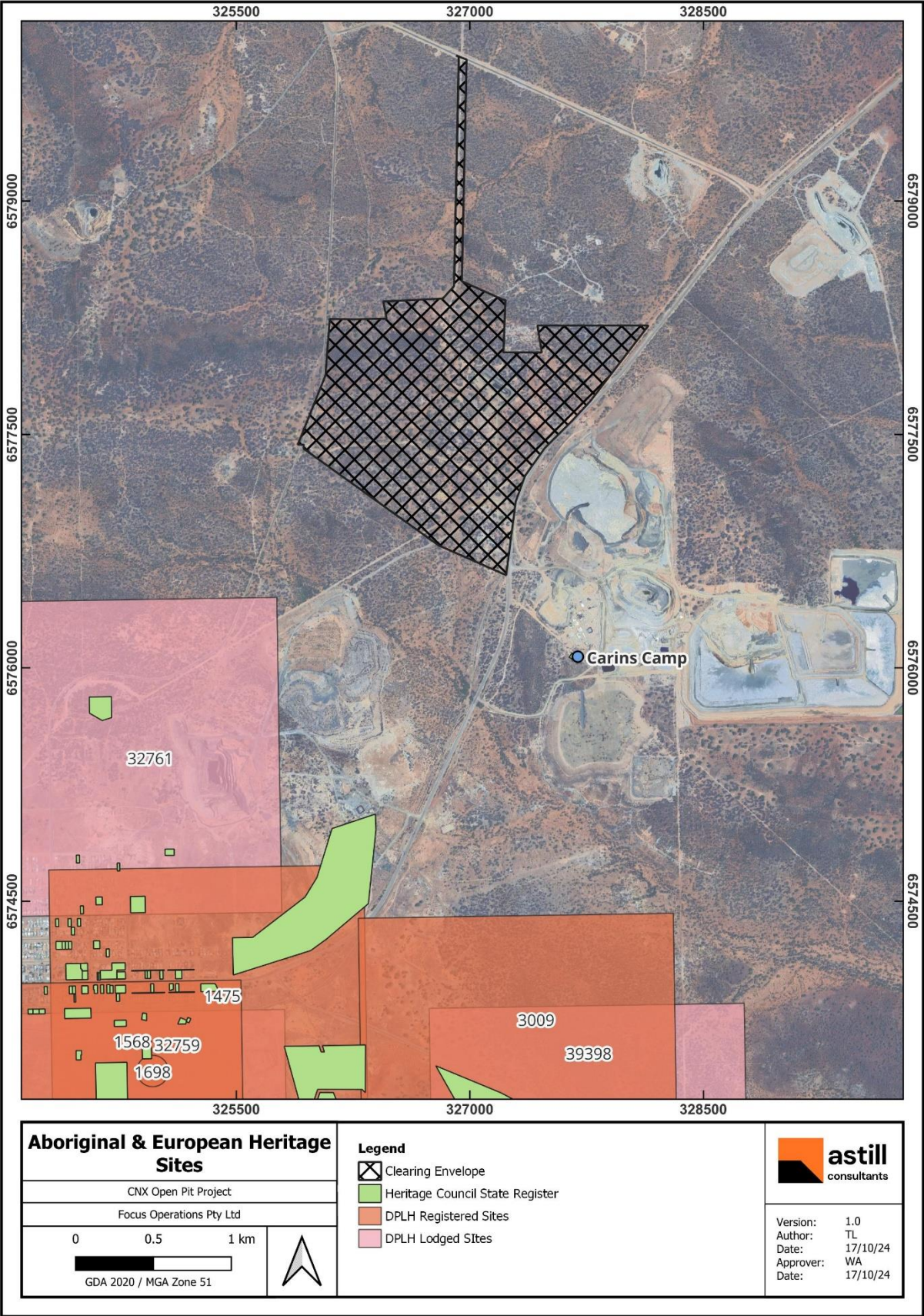


Figure 12: Heritage sites

3. Assessment Against Clearing Principles

An assessment against each of the ten clearing principles as defined under Schedule 5 of the EP Act demonstrates that the proposed clearing is unlikely to be at variance with any of principles as outlined in Table 20 below.

Table 20: Clearing principles assessment

Clearing principle	Assessment	Outcome
a) Native vegetation should not be cleared if it comprises a high level of biological diversity.	The Eastern Goldfields subregion is rich and diverse in its flora; however, most species (excluding Priority species) are wide ranging and usually occur in at least one, and often several, adjoining subregions (Cowan, 2001). The Project area is not considered to comprise a high level of biological diversity as vegetation is typical of the surrounding region. The vegetation within the Project area has been impacted by historical and recent disturbances, reducing vegetation quality.	Unlikely to be at variance to this principle.
b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.	Conservation significant species considered to be potentially present in the area include Malleefowl. No active or inactive nests were identified within the Project area. Malleefowl have a wide range, and habitat present is analogous to the surrounding area and is not considered to be significant for this species. One scat was found during a fauna survey, originally thought to be Chuditch, upon further advise has now been classified as unidentified.	Unlikely to 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 Threatened (Declared Rare) or Priority flora species were recorded in the Project area during any of the vegetation and flora surveys.	Unlikely to be at variance to this principle
d) Native vegetation should not be cleared if it comprises the whole or a part of or is necessary for the maintenance of a threatened ecological community.	There are no known TECs or PECs located within a 50 km radius of the Project area. No vegetation analogous to TECs or PECs were recorded in any of the vegetation and flora surveys.	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 Project area includes pre-European vegetation association Coolgardie 9 with remaining extents of 97.78% remaining across the Coolgardie Bioregion. The clearing represents a minor portion of vegetation in an area well connected to surrounding vegetation.	Not 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 wetland.	There are no permanent watercourses or wetlands in the Project area. Minor ephemeral surface water flow paths exist through the Project area, however vegetation associated with these are not distinct to these areas and are not considered riparian vegetation.	Unlikely to be 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 disturbance envelope contains a significant proportion of historic mining disturbance and newer exploration disturbance, and following completion of the Project activities will be rehabilitated in accordance with an approved MCP.	Unlikely to be 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 areas or DBCA-managed lands in the Project area. The nearest ESA is Rowles Lagoon, located approximately 62 km northwest, and the nearest conservation area is Kangaroo Hills Timber Reserve, located 6km southwest located adjacent to the project, but not within the boundary.	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.	There are no permanent surface water features in the Project area. Groundwater in the region is hypersaline and has limited uses outside of the mining industry. Groundwater recharge is slow and will not be impacted by clearing activities.	Unlikely to be at variance to this principle
j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.	The climate is semi-arid with an average annual rainfall under 300 mm. Catchment areas are small and defined by hills to the south and north of the Project area. Ephemeral drainage lines in the Project area are likely to only flow as shallow overland flow. Drainage diversion infrastructure will be installed to ensure that flood risks to the Project are mitigated whilst preserving natural surface water flow paths.	Unlikely to be at variance to this principle

4. Clearing Process

Vegetation will be cleared by mechanical clearing. Clearing areas will be kept to the minimum required for mine activities and undertaken progressively as required. Existing disturbances will be utilised where possible.

4.1 Equipment

Equipment required to undertake and support clearing activities may include a combination of:

- Dozer;
- Loader;
- Excavator;
- Water Cart; and
- Service Vehicles.

4.2 Methodology

Prior to any clearing, a surface disturbance permit (FML-ENV-FORM-02) will be authorised by Focus' environmental department to ensure clearing is able to be undertaken under a clearing permit or valid clearing exemption (i.e., Regulation 20 of the *Environmental Protection (Clearing of Native Vegetation) Regulations 2004*).

Proposed clearing will be demarcated by a surveyor using high visibility tape / survey pegs to ensure clear visual boundaries for operators prior to clearing commencement. A toolbox meeting will be held between the supervisor and clearing operator to ensure awareness of clearing areas and any areas to be avoided.

Where practicable, raised blade clearing will be used. Where this is not practicable, topsoil will be stripped to 200 mm depth and stockpiled for use in rehabilitation, along with removed vegetation. Once clearing has been completed, surveyors will complete a pickup of cleared areas and provide the data to the environmental department for their records and external reporting obligations.

4.3 Rehabilitation

Rehabilitation of cleared areas will occur in accordance with the CGO Mine Closure Plan (MCP) which is being revised to include the Project and will be submitted in conjunction with a Mining Proposal for the CNX Project expansion to DEMIRS in tandem with this application.

5. Environmental Management

An Environmental Management Plan (EMP) for CGO was updated in May 2023. This updated EMP outlines the Environmental Management System (EMS) and management strategies and procedures for key environmental areas including those that related to clearing activities (i.e., air quality, fauna, land and soils, vegetation, and weeds). Applicable management measures are summarised below.

5.1 Air quality

Dust is generated from clearing activities, topsoil stripping and spreading. Excessive dust can increase local particulate levels, impacting surrounding vegetation and sensitive receptors.

The following management measures will be implemented to mitigate air quality impacts:

- Weather conditions are monitored, and dust impacts are assessed during clearing;
- Topsoil stripping and spreading activities will be restricted if dust cannot be adequately controlled during periods of high winds; and
- Water carts are available and utilised for wetting down of soils as required.

5.2 Land and soils

Land and soils may be impacted by clearing activities including minor hydrocarbon spills and poor topsoil stripping and handling practises. These impacts may have long term effects on rehabilitation performance.

The following management measures will be implemented to conserve land and soil resources:

- Regular inspections and maintenance of machinery including daily pre-starts;
- Spill kits closely available during clearing activities;
- Stripping topsoil to a maximum depth of up to 200 mm;
- Topsoil stripping to be undertaken as close as possible to commencement of activities; and
- Soils to be paddock-dumped into stockpiles of no greater than 2 m in height and have adequate distance between them to create a series of mounds and troughs.

5.3 Fauna

Fauna impacts (vehicle strike) during clearing activities may result in injury or death of native fauna or livestock. Whilst not all incidents are avoidable, impacts can be minimised.

The following management measures will be implemented to reduce the risk to fauna:

- Speed limits will be signed and enforced;
- Any injury or death of fauna will be recorded and investigated;
- Access to food wastes will be minimised by ensuring effective storage and disposal; and
- Personnel are prohibited from direct contact with fauna, including feeding.

5.4 Vegetation

Vegetation clearing can be minimised through design controls and ensuring that clearing only occurs as required.

The following management measures will be implemented to minimise vegetation clearing:

- Utilising existing disturbances where possible for mine infrastructure;
- Choosing paths of least resistance through vegetation when siting roads and other linear infrastructure (where practicable); and
- Retention of canopy trees where possible.

5.5 Weeds

Activities which disturb land and soils including clearing have the potential to create favourable conditions for weed infestation. Weeds can be difficult to eradicate once introduced and prevention of weed infestation has long term benefits for rehabilitation outcomes.

The following management measures will be implemented to manage weed impacts:

- All vehicles and equipment arriving on site will be free of soil, seeds, and vegetative matter;
- Movement of vehicles and equipment will be restricted to areas to be cleared; and
- Weed spray programs may be implemented on a seasonal basis to eradicate identified weed infestations.

6. References

- 360 Environmental (2022) CNX Three Mile Hill Coolgardie Gold Project Biological Surveys. Prepared for Focus Minerals Ltd June 2022
- 360 Environmental (2023). Surface Water Assessment Report – Coolgardie Gold Project – CNX Mine Site. Prepared for Focus Minerals Ltd, February 2023
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7. Appendices

Appendix A: Proof of ownership

Appendix B: Biological surveys

1. CNX Three Mile Hill – Coolgardie Gold Project Biological Surveys (360 Environmental 2022)
2. Coolgardie *Camponotus* sp. nr. *terebrans* Targeted Survey (360 Environmental, May 2022)
3. Desktop assessment for subterranean fauna for the Coolgardie Gold Project – Alicia, Big Blow, Bonnievale, Brilliant, CNX, Greenfields and Happy Jack Deposit Areas, Coolgardie, Western Australia (Invertebrate Solutions, May 2022).

Appendix C: Addendum – *Dasyurus geoffroii*

Appendix D: Addendum – *Jalmenus aridus*

Appendix A: Proof of ownership

MINING TENEMENT REGISTER SEARCH

MISCELLANEOUS LICENCE 15/95

This Register Search issued pursuant to Section 103F(4) of the Mining Act, 1978 at: **13:19:15 28/11/2024**

Barnett
Jared Barnett
A/Executive Director
Resource Tenure
Department of Energy, Mines, Industry
Regulation and Safety

Tenement Summary

Identifier : L 15/95	District : COOLGARDIE
Current Area : 55.00000 HA	Status : Live
Mark Out : 26/01/1989 10:50:00	Received : 31/01/1989 14:50:00
Term Granted : 5 Years (Renewed)	Lodging Office : COOLGARDIE
Commence : 29/03/1989	Expiry : 28/03/2029
Purpose : Road Water Pipeline Power Line	Death :

Rent Status

Due for Year End 28/03/2025 :
Previous Amount Outstanding : \$0.00
Current Due : \$0.00
Rent for Year End 28/03/2026 : \$1,452.00

Expenditure Status

Expended Year End : NO EXPENDITURE REQUIRED
Current Year () Commitment : NO EXPENDITURE REQUIRED

OWNERSHIP DETAILS

Current Holders

Name and Address	Shares
FOCUS MINERALS LTD TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888	90
FOCUS OPERATIONS PTY LTD TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888	10
Total Shares:	100

Holder Changes

Dealing	Status Date	From (Shares)	To (Shares)
Transfer 1786H/056	Registered 11/05/2006 08:30:00	GOLDFAN LTD (100)	MATADOR MINING PTY LTD (10)
Transfer 1787H/056	Registered 11/05/2006 08:30:00	GOLDFAN LTD (90)	FOCUS MINERALS LTD (90)
Transfer 293969	Registered 24/06/2008 12:20:00	MATADOR MINING PTY LTD (10)	REDEMPTION MANAGEMENT PTY LTD (10)
A to A (Name) 299484	Recorded 05/09/2008 11:00:00	REDEMPTION MANAGEMENT PTY LTD (10)	FOCUS OPERATIONS PTY LTD (10)

Applicants on Receival

Name and Address	Shares
GOLDFAN LTD LEVEL 3, 50 COLIN ST, WEST PERTH, WA, 6005	100
Total Shares:	100

DESCRIPTION DETAILS

Description

Block Type :

Effective From :

Locality :

Datum :

Boundary :

3 MILE TO BONNIE VALE

Datum situated at MGA94 Zone 51 coordinates 327121.566 metres East and 6586653.290 metres North

THENCE:
1 MAIN POLYGON DESCRIPTION
326962.389mE 6579151.326mN
326912.325mE 6579158.777mN
327068.797mE 6586648.972mN
327181.142mE 6588207.743mN
327231.021mE 6588203.862mN
327121.566mE 6586653.290mN
2 MAIN POLYGON DESCRIPTION
327511.228mE 6577856.037mN
327515.296mE 6577606.065mN
327463.838mE 6577656.425mN
327460.960mE 6577896.413mN
327546.967mE 6578160.067mN
327081.805mE 6578368.439mN
327208.663mE 6578366.540mN
327617.946mE 6578183.169mN
327511.228mE 6577856.037mN

Area :

Type

Dealing No

Start Date

Area

Granted

29/03/1989

55.00000 HA

Applied For

26/01/1989

55.00000 HA

RELATIONSHIPS

Relationships

Relationship	Dealing No	Dealing Status	Tenement ID	Tenement Status
Conditional Surrender	Surrender - Conditional CO9/923	Made absolute	M 15/645	Live

State Agreement Conversions

Applicable Legislation	Effective Start	Effective End
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SURVEY DETAILS

Survey

Surveyed Area	Surveyed Date	Surveyor`s Name	Field Book	Instruction Date	Project
0.00000 HA	06/11/1991	HOWES, JG	52	24/10/1991	10267
Standard Plan -- TENGRAPH --		Diagram 23152 (2159)			

GENERAL DETAILS

General

Objection Closing Date : 02/03/1989	Application Fee : \$135.00
File Reference : 4640/89	Survey Fee :
Receipt Number : 54	

Special Indicator

Special Indicator	Start	End
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SHIRE DETAILS

Shire

Shire	Shire No	Start	End	Area
COOLGARDIE SHIRE	1960	26/01/1989		55.00000 HA

NATIVE TITLE DETAILS

Native Title Referrals

DISCLAIMER: Complete Native Title Information is not available for this Tenement/Amalgamation/Ext of Term

Date Referred	Referral Type	Procedure	Current Status
	Tenement Application		

GRANT DETAILS

Recommendation

Recommended for :

Grant

Granted :29/03/1989	Holder Notified :	Licence/Lease issued :
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Term**Term** : 5 Years (Renewed)**From** : 29/03/1989**To** : 28/03/2029**ENDORSEMENTS/CONDITIONS DETAILS****Endorsements and Conditions**

----- No ENDORSEMENTS -----

#	CONDITIONS	Start Date	End Date
1	Compliance with the provisions of the Aboriginal Heritage Act, 1972 to ensure that no action is taken which is likely to interfere with or damage any Aboriginal site.	29/03/1989	
2	Forthwith upon receipt of the Instrument of Licence and the terms and conditions relating to such Licence or a copy or copies of same, securely affix a copy of such Instrument of Licence and such terms and conditions on the datum post and protect such documentation from the weather by plastic or some other suitable substance.	29/03/1989	
3	Properly maintain the documentation on the datum post as provided in Clause 2 hereof.	29/03/1989	
4	To construct a fence around all wells, bores, storage tanks, pumping station and any other installation as determined by the Mining Engineer-District Inspector for Mines ("the Inspector") having such dimensions and be constructed of such materials and be of such a standard as determined by the Inspector.	29/03/1989	
5	All topsoil that may be removed ahead of pipelaying operations to be stockpiled for replacement in accordance with the directions of the Inspector.	29/03/1989	
6	Ingress and egress of pastoralists and tenement holders to be preserved by the construction of vehicular access crossings over any pipeline constructed pursuant to this Licence.	29/03/1989	
7	To properly maintain the installations as directed by the Mining Engineer-District Inspector for Mines ("the Inspector").	29/03/1989	
8	Whenever any part of a pipeline and/or access road intersects an existing fence, the applicant/holder shall construct a gate or livestock grid having such dimensions and be constructed of such materials and be of such standard as determined by the Inspector.	29/03/1989	
9	At the direction of the Inspector the applicant/holder shall clear such area about any pipeline and/or about above ground transmission lines as determined by the Inspector of any dry or other growth considered by the Inspector to be likely to impede access to the pipeline and/or to be a potential risk for fire or for any other reason the Inspector may deem it necessary.	29/03/1989	
10	Blasting operations (if any) to be controlled so that no damage or injury can be caused by flying rock, concussion, ground vibrations or other means.	29/03/1989	
11	On the completion of the life of mining operations in connection with the Miscellaneous Licence the holder shall:- <ul style="list-style-type: none"> remove all installations constructed pursuant to this licence and cover over all wells and holes in the ground to such degree of safety as shall be determined by the Inspector and On such areas as cleared of natural growth by the holder or any of its agents, the holder shall plant trees and/or shrubs and/or any other plant as shall conform to the general pattern and type of growth in the same area and as directed by the Inspector and properly maintain same until such time as the Department of Conservation and Land Management advises the Inspector that the whole of such regrowth is self supporting and the Inspector so advises the holder of same. Unless the Warden or Minister for Mines orders or consents otherwise.	29/03/1989	
12	Subject to the conditions contained in a certain letter dated 27 February 1989 by the Shire of Coolgardie.	29/03/1989	
13	Subject to the conditions contained in a certain letter dated 14 February 1989 by the Western Australian Government Railway Commission.	29/03/1989	
14	Subject to the conditions contained in a certain agreement dated 14 March 1989 between Western Mining Corporation Limited and Goldfan Ltd.	29/03/1989	
15	At the completion of operations, all buildings and structures being removed from site or demolished and buried to the satisfaction of the State Mining Engineer.	09/02/1999	03/06/2022
16	All rubbish and scrap is to be progressively disposed of in a suitable manner.	09/02/1999	
17	At the completion of operations, or progressively where possible, all access roads and other disturbed areas being covered with topsoil, deep ripped and revegetated with local native grasses, shrubs and trees to the satisfaction of the State Mining Engineer.	09/02/1999	
18	Any failure of components of waste management systems resulting in a loss of potentially polluting matter to the environment being immediately reported to the Inspectorate	09/02/1999	

#	CONDITIONS	Start Date	End Date
	Environmental and Rehabilitation Officer of the Department of Minerals and Energy. This report being accompanied by a programme for corrective action.		
19	Pipelines carrying dewatering effluent, saline groundwater from borefields, or process waters to and from tailings impoundments being fitted with automatic shutoff devices where necessary encompassed by adequate bunds with catch pits to prevent flow of effluent and waters to the environment in the event of a system failure.	09/02/1999	
20	The licensee visually inspecting for evidence of pipeline failure and the ground surrounding the dewatering effluent and saline groundwater supply pipelines at a minimum frequency of once per day.	09/02/1999	
21	Should a failure in an inspected pipeline be discovered, the discharge being ceased immediately and not resuming until the pipeline has been repaired. The Inspectorate Environmental and Rehabilitation Officer being notified within one week of the failure and provided with an estimate of total effluent volume lost due to the failure and a programme of corrective action.	09/02/1999	
22	All pipeline access roads being engineered to prevent erosion and exposure of the pipeline caused by stormwater runoff.	09/02/1999	
23	Any alteration or expansion of operations within the licence boundaries beyond that outlined in the above document(s), is not to commence until a plan of operations and a programme to safeguard the environment are submitted to the State Mining Engineer for his assessment and until his written approval to proceed has been obtained.	09/02/1999	03/06/2022
24	The licensee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for State Development for due compliance with the environmental conditions of the lease in the sum of: \$24,000	28/08/2002	08/07/2013
	The licensee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for Mines in the sum of \$8,000 for due compliance with the environmental conditions of the licence.	13/04/1999	27/08/2002
	The licensee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for Mines in the sum of \$80,000 for due compliance with the environmental conditions of the licence.	09/02/1999	12/04/1999
25	The Licensee submitting to the Executive Director, Environment Division, DMP, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This report to be submitted each year in: <ul style="list-style-type: none"> January 	01/09/2016	03/06/2022
	The Licensee submitting to the Executive Director, Environment Division, DMP, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This report to be submitted each year in: <ul style="list-style-type: none"> August 	30/08/2013	31/08/2016
	The licensee submitting to the State Mining Engineer in August of each year, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months.	09/02/1999	30/08/2013
26	The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the document titled: <ul style="list-style-type: none"> "Notice of Intent - Addendum Proposed Alternate Haul Road to Three Mile" Technically certified by Ms Sonia Finucane and corporately endorsed by Mr Clive Miller and retained on Department of Mineral and Petroleum Resources File No. 5262/02; (MPMCP Reg ID 120953) "Roger Springs Borefield Infrastructure" dated 31 October 2023 and retained on Department of Energy, Mines, Industry Regulation and Safety File No. EARS-MP-120953 as Object ID A68055480; (MPMCP Reg ID 121063) "CNX Material Stockpiles" dated 14 November 2023 and retained on Department of Energy, Mines, Industry Regulation and Safety File No. EARS-MP-121063 as Object ID A69908638 <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail.</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the document titled:</p>	05/03/2024	
		06/02/2024	04/03/2024

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> "Notice of Intent - Addendum Proposed Alternate Haul Road to Three Mile" Technically certified by Ms Sonia Finucane and corporately endorsed by Mr Clive Miller and retained on Department of Mineral and Petroleum Resources File No: 5262/02; (MPMCP Reg ID 120953) "Roger Springs Borefield Infrastructure" dated 31 October 2023 and retained on Department of Energy, Mines, Industry Regulation and Safety File No. EARS-MP-120953 as Object ID A68055480 <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the document titled:</p> <ul style="list-style-type: none"> "Notice of Intent - Addendum Proposed Alternate Haul Road to Three Mile" Technically certified by Ms Sonia Finucane and corporately endorsed by Mr Clive Miller and retained on Department of Mineral and Petroleum Resources File No: 5262/02. <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p>		
	The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the document titled:	28/08/2002	05/02/2024
	<ul style="list-style-type: none"> "Notice of Intent - Addendum Proposed Alternate Haul Road to Three Mile" Technically certified by Ms Sonia Finucane and corporately endorsed by Mr Clive Miller and retained on Department of Mineral and Petroleum Resources File No: 5262/02. <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p>		
27	Where saline water is used for dust suppression, all reasonable measures being taken to avoid any detrimental effects to surrounding vegetation.	28/08/2002	
28	All mining operations approved by a Mining Proposal submitted on or after 3 March 2020 to meet the environmental outcomes and performance criteria stated in the latest, relevant approved Mining Proposal/s.	03/06/2022	
29	All ground disturbance approved by a Mining Proposal submitted on or after 3 March 2020 to be undertaken within the disturbance envelope as presented within the latest, relevant approved Mining Proposal/s.	03/06/2022	
30	No alteration or expansion of mining operations beyond the activities described within the Activity, and Key Mine Activity tables of the latest, relevant approved Mining Proposal/s unless a subsequent Mining Proposal is submitted, in the form defined in section 700 of the <i>Mining Act 1978</i> , to cover the alteration or expansion, and until such Mining Proposal is approved by the Executive Director, Resource and Environmental Compliance Division, Department of Mines, Industry Regulation and Safety.	03/06/2022	
31	The Licensee to ensure adequate environmental monitoring and analysis is undertaken of activities approved by a Mining Proposal submitted on or after 3 March 2020 to demonstrate the level of achievement of the performance criteria stated in the latest, relevant approved Mining Proposal/s.	03/06/2022	
32	Report any breach of environmental outcome or performance criteria contained within an approved Mining Proposal submitted on or after 3 March 2020, to the Executive Director, Resource and Environmental Compliance Division, Department of Mines, Industry Regulation and Safety within 24 hours of becoming aware of the occurrence of the breach.	03/06/2022	
33	Management of mine closure to be undertaken in accordance with the latest, relevant, approved Mine Closure Plan.	03/06/2022	
34	Report any incident arising from mining activities that has caused, or has the potential to cause environmental harm or injury to the land, to the Executive Director, Resource and Environmental Compliance Division, Department of Mines, Industry Regulation and Safety, within 24 hours of becoming aware of the occurrence of the incident.	03/06/2022	
35	The development and operation of the project being carried out in such a manner so as to create the minimum practicable disturbance to the existing vegetation and natural landform.	03/06/2022	
36	Topsoil and vegetation to be removed ahead of mining operations and appropriately stockpiled for later resspreading or immediately resspread as rehabilitation progresses.	03/06/2022	
37	All rubbish and waste will be appropriately managed and disposed.	03/06/2022	
38	The Licensee taking all reasonable and practicable measures to prevent or minimise the generation of dust from mining operations.	03/06/2022	
39	All mining related landforms and disturbances must be rehabilitated, in a progressive manner where practicable, to ensure they are safe, stable, non-polluting, integrated with the surrounding landscape and support self-sustaining, functional ecosystems or alternative agreed outcome to the satisfaction of the Executive Director, Resource and Environmental Compliance, Department of Mines, Industry Regulation and Safety.	03/06/2022	
40	An annual environmental report is to be submitted to the Executive Director, Resource and Environmental Compliance, Department of Mines, Industry Regulation and Safety, outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programs for the next 12 months. This report is to be submitted each year in:	03/06/2022	

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> January 		
41	A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified 03/06/2022 in tenement conditions in the year specified below, unless otherwise directed by the Executive Director Resource and Environmental Compliance Division, Department of Mines, Industry Regulation and Safety. The Mine Closure Plan is to be prepared in accordance with the Department's "Guidelines for Preparing Mine Closure Plans": <ul style="list-style-type: none"> 2024 		
42	All disturbances to the surface of the land made as a result of exploration, including costeans, drill pads, grid lines and access tracks, being backfilled and rehabilitated to the satisfaction of the Environmental Officer, Department of Mines, Industry Regulation and Safety. Backfilling and rehabilitation being required no later than 6 months after excavation unless otherwise approved in writing by the Environmental Officer, Department of Mines, Industry Regulation and Safety.	07/02/2023	
43	Unless the written approval of the Environmental Officer, Department of Mines, Industry Regulation and Safety is first obtained, the use of drilling rigs, scrapers, graders, bulldozers, backhoes or other mechanised equipment for surface disturbance or the excavation of costeans is prohibited. Following approval, all topsoil being removed ahead of mining operations and separately stockpiled for replacement after backfilling and/or completion of operations.	07/02/2023	
44	Lined storage dams will be fitted with appropriate fauna egress points to ensure that any fauna does not become entrapped.	06/02/2024	
45	All reasonable measures will be taken to ensure all hydrocarbons, environmentally hazardous chemicals, process water and other environmentally hazardous substances or waste are stored and managed in a manner to prevent discharges to the environment.	06/02/2024	
46	All hydrocarbon spills or chemical spills will be contained and cleaned up within a timely manner.	06/02/2024	
47	Clearing of large, mature trees will be avoided, where practicable.	06/02/2024	
48	All activities to be undertaken so as to avoid or minimise damage, disturbance or contamination of waterways, including their beds and banks, riparian and other water dependent vegetation.	06/02/2024	
49	The development and operation of the project being carried out in such a manner so as to create the minimum practicable disturbance to the existing vegetation and natural landform.	06/02/2024	
50	All excavations will be backfilled and/or closed to ensure they are stable and safe to the satisfaction of the Executive Director, Resource and Environmental Compliance Division, Department of Energy, Mines, Industry Regulation and Safety.	06/02/2024	
51	All waste materials, rubbish, plastic sample bags, abandoned equipment and temporary buildings being removed from the mining tenement prior to or at the termination of the operation.	06/02/2024	
52	Any watercourses that are disturbed by mining operations will be restored, as far as practicable, to the pre-disturbance conditions.	06/02/2024	
53	All chemicals and hydrocarbons will be removed from site prior to or at the termination of the operation.	06/02/2024	
54	Placement of waste material must be such that the final footprint after rehabilitation will not be impacted upon by pit wall subsidence or be within the zone of pit instability to the satisfaction of the Executive Director, Resource and Environmental Compliance, Department of Energy, Mines, Industry Regulation and Safety.	20/05/2024	
55	All reasonable measures will be taken to construct tailings storage, vat leach or heap leach facilities in a manner to prevent discharges from the facility to the environment.	20/05/2024	
56	All activities being carried out in such a manner so as to not have a detrimental effect on the natural water flow through the lease and surrounding areas to the satisfaction of the Environmental Officer, Department of Energy, Mines, Industry Regulation and Safety.	20/05/2024	

DEALINGS DETAILS

Dealings

Agreement CO2/889

Encumbrances

Agreement (Licence Agreement) WESTERN MINING CORPORATION LTD and GOLDFAN LTD Lodged 9:00:00 AM on 23 Mar 1989
REGISTERED 10:00 AM 29 Mar 1989

Mortgage 26H/890	Lodged 3:00:00 PM on 28 Sep 1989 in favour of RURAL INDUSTRIES BANK OF WESTERN REGISTERED 3:00 PM 28 Sep 1989 Discharged by Withdrawal 1048H/912 lodged 4:00:00 PM on 25 Jun 1992
Caveat 501H/890	Lodged 2:50 PM on 03 Oct 1989 by RURAL INDUSTRIES BANK OF WESTERN AUSTRALIA RECORDED 2:50 PM 03 Oct 1989 WITHDRAWN 9:00:00 AM 14 Jul 1992
Mortgage - Discharge 1048H/912	In respect to Mortgage 26H/890 lodged 4:00:00 PM on 25 Jun 1992 REGISTERED 4:00 PM 25 Jun 1992
Withdrawal of Dealing 1064H/912	Lodged 4:00:00 PM on 25 Jun 1992 withdrawing Caveat 501H/890 REJECTED 4:00 PM 25 Jun 1992 RELODGED 9:00 AM 14 Jul 1992 REGISTERED 9:00 AM 14 Jul 1992
Caveat 85H/923	Lodged 4:00:00 PM on 17 Jul 1992 by MACQUARIE BANK LTD. RECORDED 4:00 PM 17 Jul 1992 WITHDRAWN 2:43:00 PM 21 Sep 1993
Surrender - Conditional CO9/923	Lodged 1:40 PM on 27 Aug 1992 in favour of application for Mining Lease 15/645 for that portion bordered in 'red' on the sketch attached to application. RECORDED 1:40 PM 27 Aug 1992 MADE ABSOLUTE 25 Mar 1993
Mortgage 17H/923	Lodged 11:15 AM on 04 Nov 1992 in favour of MACQUARIE BANK LTD REGISTERED 11:15 AM 04 Nov 1992 Discharged by Withdrawal 409H/923 lodged 3:10:00 PM on 17 Jun 1993
Caveat 1303H/923	Lodged 12:30:00 PM on 06 Apr 1993 by CITIBANK LTD RECORDED 12:30 PM 06 Apr 1993 WITHDRAWN 2:25:00 PM 06 May 1999
Mortgage - Discharge 409H/923	In respect to Mortgage 17H/923 lodged 3:10:00 PM on 17 Jun 1993 REGISTERED 3:10 PM 17 Jun 1993
Mortgage 39H/923	Lodged 3:10:00 PM on 17 Jun 1993 in favour of CITIBANK LTD REGISTERED 3:10 PM 17 Jun 1993 Discharged by Withdrawal 302H/989 lodged 2:25:00 PM on 06 May 1999
Withdrawal of Dealing 211H/934	Lodged 2:43:00 PM on 21 Sep 1993 withdrawing Caveat 85H/923 REGISTERED 2:43 PM 21 Sep 1993
Extension / Renewal of Term CO180/934	Lodged 8:30:00 AM on 15 Feb 1994 for a further period of 5 Years RECORDED 8:30 AM 15 Feb 1994 GRANTED by the Minister for Mines on 10 Mar 1994
Extension / Renewal of Term CO27/989	Lodged 8:30:00 AM on 05 Mar 1999 for a further period of 5 Years RECORDED 8:30 AM 05 Mar 1999 GRANTED by the Minister for Mines on 30 Mar 1999
Bond PE4822	Lodged on 07 Apr 1999 For \$8,000.00 RECORDED 07 Apr 1999 RETIRED 12 Sep 2002
Mortgage - Discharge 302H/989	In respect to Mortgage 39H/923 lodged 2:25:00 PM on 06 May 1999 REGISTERED 2:25 PM 06 May 1999
Withdrawal of Dealing 301H/989	Lodged 2:25:00 PM on 06 May 1999 withdrawing Caveat 1303H/923 REGISTERED 2:25 PM 06 May 1999
Agreement 122H/012	Agreement (Deed of Cross Charge) GOLDFAN LTD, HERALD OPERATIONS PTY LTD, MPI GOLD PTY LTD and PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD Lodged 11:25:00 AM on 12 Jun 2002 REGISTERED 11:25 AM 12 Jun 2002
Agreement 121H/012	Agreement (Joint Venture) MPI GOLD PTY LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD, HERALD OPERATIONS PTY LTD and GOLDFAN LTD Lodged 11:25:00 AM on 12 Jun 2002

Mortgage 5H/023	<p>REGISTERED 11:25 AM 12 Jun 2002</p> <p>Lodged 10:20 AM on 15 Jul 2002 in favour of MACQUARIE BANK LTD</p> <p>REGISTERED 10:20 AM 15 Jul 2002</p> <p>Discharged by Withdrawal 191430 lodged 2:44:00 PM on 23 Dec 2005</p>
Caveat 18H/023	<p>Lodged 4:00:00 PM on 18 Jul 2002 by MACQUARIE BANK LTD in respect to 100/100ths shares in the name of GOLDFAN LTD</p> <p>RECORDED 4:00 PM 18 Jul 2002</p> <p>Re Agreements 104H/023 to 106H/023 14 day notice sent 04 Jun 2003.</p> <p>Caveat to remain in full force and effect by order of Warden Heaney on 18 Jun 2003</p> <p>WITHDRAWN 2:44 PM 23 Dec 2005</p>
Bond PE7585	<p>Lodged 9:00:00 AM on 05 Aug 2002 For \$16,000.00</p> <p>RECORDED 9:00 AM 05 Aug 2002</p> <p>RETIRED 23 May 2006</p>
Bond Requirement 308773	<p>Requirement Date: 28/08/2002</p> <p>Amount: \$24,000.00</p> <p>RECORDED: 09:21:07 28 August 2002</p>
Bond PE7676	<p>Lodged 9:30:00 AM on 02 Sep 2002 For \$8,000.00</p> <p>RECORDED 9:30 AM 02 Sep 2002</p> <p>RETIRED 23 May 2006</p>
Caveat 301H/023	<p>Lodged 4:20:00 PM on 19 Nov 2002 by MACQUARIE BANK LTD in respect to 50/100ths shares in the name of GOLDFAN LTD</p> <p>RECORDED 4:20 PM 19 Nov 2002</p> <p>Re Agreements 104H/023 to 106H/023 14 day notice sent 04 Jun 2003.</p> <p>Caveat to remain in full force and effect by order of Warden Heaney on 18 Jun 2003</p> <p>WITHDRAWN 2:44 PM 23 Dec 2005</p>
Agreement 104H/023	<p>Agreement (Deed of Assignment and Assumption - Mining Joint Venture Agreement - PWAMC) HERALD OPERATIONS PTY LTD, GOLDFAN LTD, COOLGARDIE OPERATIONS PTY LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD and PITTSTON WESTERN AUSTRALIAN MINERALS COMPANY PTY LTD Lodged 10:45:00 AM on 06 May 2003</p> <p>REGISTERED 10:00 AM 18 Jun 2003</p>
Agreement 105H/023	<p>Agreement (Deed of Assignment and Assumption - Mining Joint Venture Agreement - COPL) HERALD OPERATIONS PTY LTD, GOLDFAN LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD, MPI GOLD PTY LTD and COOLGARDIE OPERATIONS PTY LTD Lodged 10:45:00 AM on 06 May 2003</p> <p>REGISTERED 10:00 AM 18 Jun 2003</p>
Agreement 106H/023	<p>Agreement (Deed of Cross Charge) GOLDFAN LTD, COOLGARDIE OPERATIONS PTY LTD and PITTSTON WESTERN AUSTRALIAN MINERALS COMPANY PTY LTD Lodged 10:45:00 AM on 06 May 2003</p> <p>REGISTERED 10:00 AM 18 Jun 2003</p>
Extension / Renewal of Term CO23/034	<p>Lodged 8:30:00 AM on 23 Feb 2004 applied for a period of 5 Years</p> <p>RECORDED 8:30 AM 23 Feb 2004</p> <p>GRANTED 8:30 AM 29 Mar 2004</p>
Caveat 77H/056	<p>Lodged 2:48 PM on 05 Aug 2005 by AUSTMINEX LTD in respect to 100/100ths shares in the name of GOLDFAN LTD</p> <p>RECORDED 2:48 PM 05 Aug 2005</p> <p>Re Transfers 1786H/056 and 1787H/056 14 day notice sent 26 Apr 2006</p> <p>LAPSED 12:00 Midnight on 10 May 2006</p>
Mortgage - Discharge 100H/056	<p>In respect to Mortgage 5H/023 lodged 2:44:00 PM on 23 Dec 2005</p> <p>REGISTERED 2:44 PM 23 Dec 2005</p>
Withdrawal of Dealing 102H/056	<p>Lodged 2:44:00 PM on 23 Dec 2005 withdrawing Caveat 301H/023</p> <p>REGISTERED 2:44 PM 23 Dec 2005</p>

Withdrawal of Dealing 103H/056

Lodged 2:44:00 PM on 23 Dec 2005 withdrawing Caveat 18H/023
REGISTERED 2:44 PM 23 Dec 2005

Bond 240105

Lodged on 23 May 2006 For \$16,000.00
RECORDED 23 May 2006
RETIRED 13 Oct 2008

Bond 240106

Lodged on 23 May 2006 For \$8,000.00
RECORDED 23 May 2006
RETIRED 13 Oct 2008

Bond 297183

Lodged 4:20:00 PM on 11 Aug 2008 For \$24,000.00
REJECTED 8:15 AM 12 Aug 2008
RELODGED 11:00 AM 20 Aug 2008
RECORDED 4:20 PM 20 Aug 2008
Lodged: 16:20 11 August 2008
Bond Type: Unconditional Performance Bond
Affected Tenements: L 15/95
REJECTED: 08:15 12 August 2008
Relodged: 11:00 20 August 2008
Bond Type: Unconditional Performance Bond
Bond Amount: \$24,000.00
RECORDED: 20 August 2008
RETIRED: 31 July 2014

Extension / Renewal of Term 312186

Lodged: 09:50 09 February 2009
Applied For Period: 5 Years
RECORDED: 09:50 09 February 2009
Granted Period: 5 Years
Term Renewed To: 28/03/2014
GRANTED: 30 March 2009

Application to Amend 423370

Lodged: 09:55 16 May 2013
REJECTED: 09:55 16 May 2013

Extension / Renewal of Term 438821

Lodged: 09:30 17 January 2014
Applied For Period: 21 Years
RECORDED: 09:30 17 January 2014
GRANTED: 22 January 2014
Granted Period: 5 Years
Term Renewed To: 28/03/2019

Application to Amend 448467

Lodged: 15:32 09 June 2014
Amending From: Address
FOCUS OPERATIONS PTY LTD, C/-
KEN MAGUIRE, 9 CHUDLEIGH STREET,
FREMANTLE, WA, 6160
To: FOCUS OPERATIONS PTY LTD, C/-MCMAHON
MINING TITLE SERVICES PTY LTD, PO BOX
592, MAYLANDS, WA, 6931
RECORDED: 15:32 09 June 2014

Application to Amend 448468

Lodged: 15:32 09 June 2014
Amending From: Address
FOCUS MINERALS LTD, C/- ATTN: KEN
MAGUIRE: TENEMENT ADMINISTRATION, 9
CHUDLEIGH STREET, FREMANTLE, WA, 6160
To: FOCUS MINERALS LTD, C/- MCMAHON
MINING TITLE SERVICES PTY LTD, PO BOX
592, MAYLANDS, WA, 6931
RECORDED: 15:32 09 June 2014

Bond 451686	Lodged:	14:15 25 July 2014
	Bond Type:	Unconditional Performance Bond
	Bond Amount:	\$24,000.00
	RECORDED:	25 July 2014
	RETIRED:	30 September 2014
Bond 455096	Lodged:	09:30 22 September 2014
	Bond Type:	Unconditional Performance Bond
	Bond Amount:	\$24,000.00
	Affected Tenements:	L 15/95
	REJECTED:	09:30 22 September 2014
	Relodged:	14:00 24 September 2014
	Bond Type:	Unconditional Performance Bond
	Bond Amount:	\$24,000.00
	RECORDED:	24 September 2014
Application to Amend 491515	Lodged:	08:30 01 August 2016
	Amending:	Address (Including DTC Details)
	From:	Principal Place of Business : FOCUS OPERATIONS PTY LTD, SAME AS CORRESPONDENCE and DTC :FOCUS OPERATIONS PTY LTD, C/-MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931
	To:	Principal Place of Business : FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400 and DTC :FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, 089309 0400
	RECORDED:	08:30 01 August 2016
Application to Amend 491559	Lodged:	13:38:30 01 August 2016
	Amending:	Address (Including DTC Details)
	From:	Principal Place of Business : FOCUS MINERALS LTD, SAME AS CORRESPONDENCE and DTC :FOCUS MINERALS LTD, C/- MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931
	To:	Principal Place of Business : FOCUS MINERALS LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400 and DTC :FOCUS MINERALS LTD, AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400
	RECORDED:	13:38:30 01 August 2016
Application to Amend 518332	Lodged:	09:55 14 November 2017
	Amending:	Boundary
	To:	THENCE: 1 MAIN POLYGON DESCRIPTION 326962.389mE 6579151.326mN 326912.325mE 6579158.777mN 327068.797mE 6586648.972mN 327181.142mE 6588207.743mN 327231.021mE 6588203.862mN 327121.566mE 6586653.290mN

2 MAIN POLYGON DESCRIPTION

327511.228mE 6577856.037mN
 327515.296mE 6577606.065mN
 327463.838mE 6577656.425mN
 327460.960mE 6577896.413mN
 327546.967mE 6578160.067mN
 327081.805mE 6578368.439mN
 327208.663mE 6578366.540mN
 327617.946mE 6578183.169mN
 327511.228mE 6577856.037mN

Amending: Datum
 From: Datum situated at the South West corner of surveyed M 15/183
 To: Datum situated at MGA94 Zone 51 coordinates 327121.566 metres East and 6586653.290 metres North
 RECORDED: 09:55 14 November 2017

Extension / Renewal of Term 549083

Lodged: 11:25:49 11 March 2019
 Applied For Period: 5 Years
 RECORDED: 11:25:49 11 March 2019
 GRANTED: 19 March 2019
 Granted Period: 5 Years
 Term Renewed To: 28/03/2024

Application to Amend 559748

Lodged: 16:27:46 02 August 2019
 Amending: Address (Including DTC Details)
 From: Principal Place of Business : FOCUS MINERALS LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400 and DTC :FOCUS MINERALS LTD, AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400
 To: Principal Place of Business : FOCUS MINERALS LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA DC, WA, 6947, reception@austwidemining.com.au, 089309 0400 and DTC :FOCUS MINERALS LTD, TENEMENT AND LAND ADMINISTRATION, PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888
 RECORDED: 16:27:46 02 August 2019

Application to Amend 559750

Lodged: 16:27:46 02 August 2019
 Amending: Address (Including DTC Details)
 From: Principal Place of Business : FOCUS OPERATIONS PTY LTD, LEVEL 2, 159 ADELAIDE TERRACE, EAST PERTH, WA, 6004, EAST PERTH, WA, 6004, tenements@focusminerals.com.au, 92157888 and DTC :FOCUS OPERATIONS PTY LTD, FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, 089309 0400
 To: Principal Place of Business : FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947,

reception@austwidemining.com.au, 089309 0400
and DTC :FOCUS OPERATIONS PTY LTD,
TENEMENT AND LAND ADMINISTRATION,
PO BOX 3233, EAST PERTH, WA, 6892,
tenements@focusminerals.com.au, 92157888
RECORDED: 16:27:46 02 August 2019

Application to Amend 559751

Lodged: 16:27:47 02 August 2019
Amending: Address (Including DTC Details)
From: FOCUS MINERALS LTD, C/- AUSTWIDE
MINING TITLE MANAGEMENT PTY LTD,
PO BOX 1434, WANGARA DC, WA, 6947,
reception@austwidemining.com.au, 089309 0400
To: FOCUS MINERALS LTD, LEVEL 2, 159
ADELAIDE TERRACE, EAST PERTH, WA, 6004,
tenements@focusminerals.com.au, 92157888
RECORDED: 16:27:47 02 August 2019

Application to Amend 559752

Lodged: 16:27:47 02 August 2019
Amending: Address (Including DTC Details)
From: FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE
MINING TITLE MANAGEMENT PTY LTD,
PO BOX 1434, WANGARA, WA, 6947,
reception@austwidemining.com.au, 089309 0400
To: FOCUS OPERATIONS PTY LTD, LEVEL 2, 159
ADELAIDE TERRACE, EAST PERTH, WA, 6004,
tenements@focusminerals.com.au, 92157888
RECORDED: 16:27:47 02 August 2019

Application to Amend 577037

Lodged: 12:56:22 30 April 2020
Amending: Address (Including DTC Details)
From: FOCUS MINERALS LTD, TENEMENT
AND LAND ADMINISTRATION, PO
BOX 3233, EAST PERTH, WA, 6892,
tenements@focusminerals.com.au, 92157888
To: FOCUS MINERALS LTD, TENEMENTS
AND LAND (COOLGARDIE), PO
BOX 3233, EAST PERTH, WA, 6892,
tenements@focusminerals.com.au, 92157888
RECORDED: 12:56:22 30 April 2020

Application to Amend 577038

Lodged: 12:56:22 30 April 2020
Amending: Address (Including DTC Details)
From: FOCUS OPERATIONS PTY LTD, TENEMENT
AND LAND ADMINISTRATION, PO
BOX 3233, EAST PERTH, WA, 6892,
tenements@focusminerals.com.au, 92157888
To: FOCUS OPERATIONS PTY LTD,
TENEMENTS AND LAND (COOLGARDIE),
PO BOX 3233, EAST PERTH, WA, 6892,
tenements@focusminerals.com.au, 92157888
RECORDED: 12:56:22 30 April 2020

Extension / Renewal of Term 697723

Lodged: 08:30 01 March 2024
Applied For
Period: 5 Years
RECORDED: 08:30 01 March 2024
GRANTED: 03 April 2024
Granted Period: 5 Years
Term Renewed
To: 28/03/2029

Application to Amend 700011

Lodged: 12:45:01 28 March 2024
Amending: Address (Including DTC Details)

From: FOCUS OPERATIONS PTY LTD, LEVEL 2, 159 ADELAIDE TERRACE, EAST PERTH, WA, 6004, tenements@focusminerals.com.au, 92157888

To: FOCUS OPERATIONS PTY LTD, LEVEL 5, 8 ST GEORGES TERRACE, PERTH, WA, 6000, tenements@focusminerals.com.au, 92157888

RECORDED: 12:45:01 28 March 2024

Application to Amend 700012

Lodged: 12:45:01 28 March 2024

Amending: Address (Including DTC Details)

From: FOCUS MINERALS LTD, LEVEL 2, 159 ADELAIDE TERRACE, EAST PERTH, WA, 6004, tenements@focusminerals.com.au, 92157888

To: FOCUS MINERALS LTD, LEVEL 5, 8 ST GEORGES TERRACE, PERTH, WA, 6000, tenements@focusminerals.com.au, 92157888

RECORDED: 12:45:01 28 March 2024

BOND DETAILS

Bond	Surety	Amount	Bond date	Bond status	Bond status date
455096	BANK OF CHINA (AUSTRALIA) LIMITED	\$24,000.00	24/09/2014	Recorded	24/09/2014
451686	AUSTRALIA AND NEW ZEALAND BANKING GROUP LTD	\$24,000.00	25/07/2014	Retired	30/09/2014
297183	INVESTEC BANK (AUSTRALIA) LTD	\$24,000.00	20/08/2008	Retired	31/07/2014
240105	COMMONWEALTH BANK OF AUSTRALIA	\$16,000.00	23/05/2006	Retired	13/10/2008
240106	MACQUARIE BANK LTD	\$8,000.00	23/05/2006	Retired	13/10/2008
PE7676	MACQUARIE BANK LTD	\$8,000.00	02/09/2002	Retired	23/05/2006
PE7585	COMMONWEALTH BANK OF AUSTRALIA	\$16,000.00	05/08/2002	Retired	23/05/2006
PE4822	MMI GENERAL INSURANCE LTD	\$8,000.00	07/04/1999	Retired	12/09/2002

RENT DETAILS**Rent Payments**

Type	Year	Receipt Date	Payment No	Receipt No	MR Lodged	Amount	Rental Area	Effective Date	Amount Due	Discrepancy
Payment	2025	19/03/2024	6853035449	10530508	OL	\$1,320.00	55.00000 HA	29/03/1989	\$1,320.00	\$0.00
Payment	2024	20/03/2023	6823279010	10339451	OL	\$1,210.00	55.00000 HA	29/03/1989	\$1,210.00	\$0.00
Payment	2023	21/03/2022	3509050401	10250379	OL	\$1,083.50	55.00000 HA	29/03/1989	\$1,083.50	\$0.00
Payment	2022	15/03/2021	3421977855	10188335	OL	\$984.50	55.00000 HA	29/03/1989	\$984.50	\$0.00
Payment	2021	13/03/2020	3559602804	10137096	OL	\$962.50	55.00000 HA	29/03/1989	\$962.50	\$0.00
Payment	2020	21/02/2019	1362833004	10086700	OL	\$907.50	55.00000 HA	29/03/1989	\$907.50	\$0.00
Payment	2019	13/02/2018	1025439199	FOCUS OPERATIONS FOCUS OPERATIONS	OL	\$858.00	55.00000 HA	29/03/1989	\$858.00	\$0.00
Payment	2018	17/02/2017		MT-210010922562-EF	OL	\$830.50	55.00000 HA	29/03/1989	\$830.50	\$0.00
Payment	2017	22/03/2016		MT-210010505765-EF	OL	\$803.00	55.00000 HA	29/03/1989	\$803.00	\$0.00
Payment	2016	23/03/2015		MT-210010238376-EF	OL	\$783.75	55.00000 HA	29/03/1989	\$783.75	\$0.00
Payment	2015	13/01/2014		MT-210010154191-EF	OL	\$764.50	55.00000 HA	29/03/1989	\$764.50	\$0.00
Payment	2014	28/03/2013		06-122191	PE	\$750.75	55.00000 HA	29/03/1989	\$750.75	\$0.00
Payment	2013	08/03/2012		11052	CO	\$731.50	55.00000 HA	29/03/1989	\$731.50	\$0.00

Type	Year	Receipt Date	Payment No	Receipt No	MR Lodged	Amount	Rental Area	Effective Date	Amount Due	Discrepancy
Payment	2012	03/03/2011		9700	CO	\$780.45	55.00000 HA	29/03/1989	\$780.45	\$0.00
Payment	2011	29/01/2010		7717	CO	\$762.30	55.00000 HA	29/03/1989	\$762.30	\$0.00
Payment	2010	22/01/2009		60670	PE	\$732.05	55.00000 HA	29/03/1989	\$732.05	\$0.00
Payment	2009	05/03/2008		8883	KA	\$707.85	55.00000 HA	29/03/1989	\$707.85	\$0.00
Payment	2008	02/03/2007		6005	KA	\$677.60	55.00000 HA	29/03/1989	\$677.60	\$0.00
Payment	2007	07/03/2006		3582	KA	\$653.40	55.00000 HA	29/03/1989	\$653.40	\$0.00
Payment	2006	22/03/2005		9138	PE	\$635.25	55.00000 HA	29/03/1989	\$635.25	\$0.00
Payment	2005	23/02/2004		4496	CO	\$617.10	55.00000 HA	29/03/1989	\$617.10	\$0.00
Payment	2004	24/03/2003		58605	PE	\$598.95	55.00000 HA	29/03/1989	\$598.95	\$0.00
Payment	2003	13/03/2002		46535	PE	\$580.80	55.00000 HA	29/03/1989	\$580.80	\$0.00
Payment	2002	13/03/2001		34416	PE	\$580.80	55.00000 HA	29/03/1989	\$580.80	\$0.00
Payment	2001	09/08/2000		26303	PE	\$39.20	55.00000 HA	29/03/1989	\$567.20	\$0.00
Payment	2001	29/03/2000		21474	PE	\$528.00				
Payment	2000	05/03/1999		23412	CO	\$528.00	55.00000 HA	29/03/1989	\$528.00	\$0.00
Payment	1999	24/03/1998		176087	PE	\$511.50	55.00000 HA	29/03/1989	\$511.50	\$0.00
Payment	1998	28/02/1997		17412	CO	\$511.50	55.00000 HA	29/03/1989	\$511.50	\$0.00
Payment	1997	15/03/1996		140721	PE	\$511.50	55.00000 HA	29/03/1989	\$511.50	\$0.00
Payment	1996	13/02/1995		10103	CO	\$511.50	55.00000 HA	29/03/1989	\$511.50	\$0.00
Payment	1995	15/02/1994		6721	CO	\$511.50	55.00000 HA	29/03/1989	\$511.50	\$0.00
Payment	1994	05/02/1993		3631	CO	\$511.50	55.00000 HA	29/03/1989	\$511.50	\$0.00
Payment	1993	06/02/1992		832	CO	\$511.50	55.00000 HA	29/03/1989	\$511.50	\$0.00
Payment	1992	06/02/1991		1	CO	\$478.50	55.00000 HA	29/03/1989	\$478.50	\$0.00
Payment	1991	15/02/1990		54	CO	\$445.50	55.00000 HA	29/03/1989	\$445.50	\$0.00
Payment	1990	31/01/1989		54	CO	\$445.50	55.00000 HA	29/03/1989	\$445.50	\$0.00

EXPENDITURE/EXEMPTION DETAILS

Expenditure is not required for this Legislation Type

COMBINED REPORTING DETAILS

C Number :
Project :

Reporting Date :
Affecting
Period :

End of Search

MINING TENEMENT REGISTER SEARCH

MINING LEASE 15/630

This Register Search issued pursuant to Section 103F(4) of the Mining Act, 1978 at: **13:19:30 28/11/2024**

Barnett
Jared Barnett
A/Executive Director
Resource Tenure
Department of Energy, Mines, Industry
Regulation and Safety

Tenement Summary

Identifier : M 15/630	District : COOLGARDIE
Current Area : 297.45000 HA	Status : Live
Mark Out : 15/06/1992 15:23:00	Received : 17/06/1992 13:30:00
Term Granted : 21 Years (Renewed)	Lodging Office : COOLGARDIE
Commence : 05/02/1993	Expiry : 04/02/2035
Purpose :	Death :

Rent Status

Due for Year End 04/02/2025 :
Previous Amount Outstanding : \$0.00
Current Due : \$0.00
Rent for Year End 04/02/2026 : \$8,522.80

Expenditure Status

Expended Year End 04/02/2024 : EXPENDED IN FULL
Current Year (04/02/2025) Commitment : \$29,800.00

OWNERSHIP DETAILS

Current Holders

Name and Address	Shares
FOCUS MINERALS LTD	180
TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888	
FOCUS OPERATIONS PTY LTD	20
TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888	
Total Shares:	200

Holder Changes

Dealing	Status Date	From (Shares)	To (Shares)
A to A (Holder) CO82/934	Registered 08/09/1993 15:20:00	COOLGARDIE GOLD NL (100)	COOLGARDIE GOLD NL (200)
Transfer 653H/978	Registered 02/10/1997 00:00:00	COOLGARDIE GOLD NL (200)	GOLDFAN LTD (200)
Transfer 925H/056	Registered 06/02/2006 08:30:00	GOLDFAN LTD (200)	FOCUS MINERALS LTD (180)
Transfer 1018H/056	Registered 06/02/2006 08:30:00	GOLDFAN LTD (20)	MATADOR MINING PTY LTD (20)
Transfer 293891	Registered 24/06/2008 12:20:00	MATADOR MINING PTY LTD (20)	REDEMPTION MANAGEMENT PTY LTD (20)
A to A (Name) 299484	Recorded 05/09/2008 11:00:00	REDEMPTION MANAGEMENT PTY LTD (20)	FOCUS OPERATIONS PTY LTD (20)

Applicants on Receival

Name and Address	Shares
COOLGARDIE GOLD NL 56B BAYLEY ST, COOLGARDIE, WA, 6429	100
Total Shares:	100

DESCRIPTION DETAILS

Description

Block Type :

Effective From :

Locality : Emu Hill

Datum : Located at the north west corner of surveyed M 15/275

Boundary : Thence

1999 metres bearing 090 degrees along a portion of the southern boundary of surveyed M 15/363

1209 metres bearing 180 degrees along a portion of the western boundary of surveyed M 15/123

340 metres bearing 183 degrees along a portion of the western boundary of surveyed M 15/123

166 metres bearing 170 degrees along a portion of the western boundary of surveyed M 15/123

90 metres bearing 203 degrees along the south east boundary of surveyed GML 15/7031

351 metres bearing 264 degrees along the southern boundary of GML 15/7031

241 metres bearing 354 degrees along the western boundary of GML 15/7031

100 metres bearing 088 degrees along a portion of the northern boundary of surveyed GML 15/7031

427 metres bearing 273 degrees along the southern boundary of surveyed M 15/184

164 metres bearing 225 degrees along the southern boundary of surveyed M 15/184

259 metres bearing 277 degrees along the southern boundary of surveyed M 15/184

226 metres bearing 311 degrees along the southern boundary of surveyed M 15/184

75 metres bearing 183 degrees along the southern boundary of surveyed M 15/184

103 metres bearing 289 degrees along the southern boundary of surveyed M 15/184

113 metres bearing 181 degrees along the southern boundary of surveyed M 15/184

241 metres bearing 269 degrees along the southern boundary of surveyed M 15/184

132 metres bearing 181 degrees along the southern boundary of surveyed M 15/184

220 metres bearing 268 degrees along the southern boundary of surveyed M 15/184

136 metres bearing 359 degrees along the southern boundary of surveyed M 15/184

150 metres bearing 269 degrees along the southern boundary of surveyed M 15/184

1665 metres bearing 360 degrees along the western boundaries of surveyed M 15/184 and M 15/275

Back to datum

This application being identical to the outer boundaries of conditionally surrendered M 15/150, M 15/184, M 15/275 and P 15/2868 and any vacant land within

Area :	Type	Dealing No	Start Date	Area
	Surveyed		15/11/2004	297.45000 HA
	Granted		05/02/1993	309.00000 HA
	Applied For		15/06/1992	309.00000 HA

RELATIONSHIPS

Relationships

Relationship	Dealing No	Dealing Status	Tenement ID	Tenement Status
Section 49			P 15/2868	Dead
Conditional Surrender	Surrender - Conditional 751H/923	Rejected	M 15/150	Live

State Agreement Conversions

Applicable Legislation	Effective Start	Effective End
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SURVEY DETAILS

Survey

Surveyed Area	Surveyed Date	Surveyor`s Name	Field Book	Instruction Date	Project
297.45000 HA	15/11/2004	HOWES, JG	108	01/11/2004	12009

Standard Plan	Diagram
TENGRAPH	31067 (2741)

GENERAL DETAILS

General

Objection Closing Date : 17/07/1992

Application Fee : \$165.40

File Reference : 7075/92

Survey Fee :

Receipt Number : 1884

Special Indicator

Special Indicator	Start	End
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SHIRE DETAILS

Shire

Shire	Shire No	Start	End	Area
COOLGARDIE SHIRE	1960	15/06/1992		297.45000 HA

NATIVE TITLE DETAILS

Native Title Referrals

DISCLAIMER: Complete Native Title Information is not available for this Tenement/Amalgamation/Ext of Term

Date Referred	Referral Type	Procedure	Current Status
	Tenement Application		

GRANT DETAILS

Recommendation

Recommended for : Grant 11/08/1992

Grant

Granted : 04/02/1993	Holder Notified : 05/02/1993	Licence/Lease issued :
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Term

Term : 21 Years (Renewed)	From : 05/02/1993	To : 04/02/2035
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ENDORSEMENTS/CONDITIONS DETAILS

Endorsements and Conditions

#	ENDORSEMENTS	Start Date	End Date
1	The land the subject of this lease does not include land the subject of General Purpose Lease 15/4, Gold Mining Lease 15/7089 and Mining Leases 15/150, 15/194 and 15/602.	05/02/1993	
#	CONDITIONS	Start Date	End Date
1	Survey	05/02/1993	
2	Compliance with the provisions of the Aboriginal Heritage Act, 1972 to ensure that no action is taken which is likely to interfere with or damage any Aboriginal site.	05/02/1993	
3	All surface holes drilled for the purpose of exploration are to be capped, filled or otherwise made safe after completion.	05/02/1993	
4	All costeans and other disturbances to the surface of the land made as a result of exploration, including drill pads, grid lines and access tracks, being backfilled and rehabilitated to the satisfaction of the Environmental Officer, Department of Industry and Resources (DoIR). Backfilling and rehabilitation being required no later than 6 months after excavation unless otherwise approved in writing by the Environmental Officer, DoIR.	17/09/2004	

#	CONDITIONS	Start Date	End Date
	All costeans and other disturbances to the surface of the land made as a result of exploration, including drill pads, grid lines and access tracks, being backfilled and rehabilitated to the satisfaction of the District Mining Engineer. Backfilling and rehabilitation being required no later than 6 months after excavation unless otherwise approved in writing by the District Mining Engineer.	05/02/1993	16/09/2004
5	All waste materials, rubbish, plastic sample bags, abandoned equipment and temporary buildings being removed from the mining tenement prior to or at the termination of exploration program.	05/02/1993	
6	Unless the written approval of the Environmental Officer, DOIR is first obtained, the use of scrapers, graders, bulldozers, backhoes or other mechanised equipment for surface disturbance or the excavation of costeans is prohibited. Following approval, all topsoil being removed ahead of mining operations and separately stockpiled for replacement after backfilling and/or completion of operations.	17/09/2004	
	Unless the written approval of the District Mining Engineer, Department of Mines, is first obtained, the use of scrapers, graders, bulldozers, backhoes or other mechanised equipment for surface disturbance or the excavation of costeans is prohibited. Following approval, all topsoil being removed ahead of mining operations and separately stockpiled for replacement after backfilling and/or completion of operations.	05/02/1993	16/09/2004
7	No developmental or productive mining or construction activity being commenced until the tenement holder has submitted a plan of the proposed operations and measures to safeguard the environment to the Director, Environment, DoIR for assessment; and until his written approval has been obtained.	12/08/2005	
	No developmental or productive mining or construction activity being commenced until the tenement holder has submitted a plan of the proposed operations and measures to safeguard the environment to the State Mining Engineer for assessment; and until his written approval has been obtained.	05/02/1993	11/08/2005
8	Mining on any road, road verge or road reserve being confined to below a depth of 15 metres from the natural surface.	05/02/1993	
9	Mining on a strip of land 20 metres wide with any (water main/pipeline) as the centreline being confined to below a depth of 31 metres from the natural surface and no mining material being deposited upon such strip and the rights of ingress to and egress from the facility being at all times preserved to the owners thereof.	05/02/1993	
10	The rights of ingress to and egress from Miscellaneous Licence 15/130 being at all times preserved to the licensee and no interference with the purpose or installations connected to the licence.	05/02/1993	
11	The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled: <ul style="list-style-type: none"> " Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No. 4027/00. Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; and both documents being retained on Department of Minerals and Energy File No. 2486/99. <ul style="list-style-type: none"> "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 	09/08/2018	

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 • Mining Proposal titled: "Low Impact Mining Notice of Intent on Mining Leases 15/412, 15/630 and 15/646" (MP 5481) dated 8 September 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0180/200601. • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/630" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150 and 15/630" dated 4 March 2008 and signed by John Williamson and Chuck McCormick (Exp 8530) and retained on Department of Industry and Resources File No. T6903/200701 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 14 October 2008 and signed by Peter Williams (Reg. ID 20654), and retained on the Department of Industry and Resources file No. T3072/200401. • (Reg ID: 31391) "Tailings Storage Facility Lift M15/645 and M15/1432 June 2011" dated 24 June 2011 signed by Barend Knoetze - Residential Manager, and retained on Department of Mines and Petroleum file No. EARS-MP-31391. • Letter "RE: Amendment Letter for TSF lift Mining Proposal" dated 12 August 2011 signed by Barend Knoetze - Registered Manager; • (Reg ID 73579) "Coolgardie Gold Project Mine Closure Plan" dated 20 April 2018 signed by Gemma Blick, and retained on Department of Mines, Industry Regulation and Safety File No. EARS-MCP-73579 as Doc ID 5705163 <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail.</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No: 1440/89; and • "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No: 2128/95; and • "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No. 4027/00. • Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. • "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and • Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> • "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 		
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No: 1440/89; and • "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No: 2128/95; and • "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No. 4027/00. • Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. • "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and • Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> • "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 	21/07/2017	08/08/2018

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> • Mining Proposal titled: "Low Impact Mining Notice of Intent on Mining Leases 15/412, 15/630 and 15/646" (MP 5481) dated 8 September 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No: E0180/200601. • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/630" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150 and 15/630" dated 4 March 2008 and signed by John Williamson and Chuck McCormick (Exp 8530) and retained on Department of Industry and Resources File No. T6903/200701 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 14 October 2008 and signed by Peter Williams (Reg. ID 20654), and retained on the Department of Industry and Resources file No. T3072/200401. • (Reg ID: 31391) "Tailings Storage Facility Lift M15/645 and M15/1432 June 2011" dated 24 June 2011 signed by Barend Knoetze - Residential Manager, and retained on Department of Mines and Petroleum file No. EARS-MP-31391. • Letter "RE: Amendment Letter for TSF lift Mining Proposal" dated 12 August 2011 signed by Barend Knoetze - Registered Manager; • (Reg ID 37572) "Coolgardie Gold Project Mine Closure Plan - Document ID: FMLCOO Version 1 - Refision 2 - January 2013" dated 23 January 2013 signed by Barend Knoetze and retained on Department of Mines and Petroleum File No: EARS-MCP-37572; • (Reg ID 58148) "Coolgardie Gold Project Mine Closure Plan, Document ID FMLCOO Version 1 Revision 4 November 2015" dated 9 November 2015 signed by Michael Chen - Senior Environmental Advisor and retained on Department of Mines and Petroleum File No. EARS-MCP-58148 as Doc ID 3987736 <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No: 1440/89; and • "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No: 2128/95; and • "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No: 4027/00. • Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. • "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and • Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> • "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck 		
		04/06/2013	20/07/2017

#	CONDITIONS	Start Date	End Date
	<p>McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601</p> <ul style="list-style-type: none"> • Mining Proposal titled: "Low Impact Mining Notice of Intent on Mining Leases 15/412, 15/630 and 15/646" (MP 5481) dated 8 September 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0180/200601. • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/630" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150 and 15/630" dated 4 March 2008 and signed by John Williamson and Chuck McCormick (Exp 8530) and retained on Department of Industry and Resources File No. T6903/200701 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 14 October 2008 and signed by Peter Williams (Reg. ID 20654), and retained on the Department of Industry and Resources file No. T3072/200401. • (Reg ID: 31391) "Tailings Storage Facility Lift M15/645 and M15/1432 June 2011" dated 24 June 2011 signed by Barend Knoetze - Residential Manager, and retained on Department of Mines and Petroleum file No. EARS-MP-31391. • Letter "RE: Amendment Letter for TSF lift Mining Proposal" dated 12 August 2011 signed by Barend Knoetze - Registered Manager; • (Reg ID 37572) "Coolgardie Gold Project Mine Closure Plan - Document ID: FMLCOO Version 1 - Refision 2 - January 2013" dated 23 January 2013 signed by Barend Knoetze and retained on Department of Mines and Petroleum File No. EARS-MCP-37572 <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No: 1440/89; and • "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No: 2128/95; and • "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No. 4027/00. • Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. • "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and • Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> • "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 		
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No: 1440/89; and • "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No: 2128/95; and • "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No. 4027/00. • Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. • "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and • Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> • "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 	15/09/2011	03/06/2013

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	<ul style="list-style-type: none"> • Mining Proposal titled: "Low Impact Mining Notice of Intent on Mining Leases 15/412, 15/630 and 15/646" (MP 5481) dated 8 September 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No: E0180/200601. • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/630" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150 and 15/630" dated 4 March 2008 and signed by John Williamson and Chuck McCormick (Exp 8530) and retained on Department of Industry and Resources File No. T6903/200701 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 14 October 2008 and signed by Peter Williams (Reg. ID 20654), and retained on the Department of Industry and Resources file No. T3072/200401. • (Reg ID: 31391) "Tailings Storage Facility Lift M15/645 and M15/1432 June 2011" dated 24 June 2011 signed by Barend Knoetze - Residential Manager, and retained on Department of Mines and Petroleum file No. EARS-MP-31391. • Letter "RE: Amendment Letter for TSF lift Mining Proposal" dated 12 August 2011 signed by Barend Knoetze - Registered Manager. <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No: 1440/89; and • "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No: 2128/95; and • "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No: 4027/00. • Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. • "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and • Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> • "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 • Mining Proposal titled: "Low Impact Mining Notice of Intent on Mining Leases 15/412, 15/630 and 15/646" (MP 5481) dated 8 September 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No: E0180/200601. • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed 	18/12/2008	14/09/2011

#	CONDITIONS	Start Date	End Date
	<p>by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601</p> <ul style="list-style-type: none"> • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/630" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150 and 15/630" dated 4 March 2008 and signed by John Williamson and Chuck McCormick (Exp 8530) and retained on Department of Industry and Resources File No. T6903/200701 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 14 October 2008 and signed by Peter Williams (Reg. ID 20654), and retained on the Department of Industry and Resources file No. T3072/200401. <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No. 1440/89; and • "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; and • "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No. 4027/00. • Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. • "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and • Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> • "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 • Mining Proposal titled: "Low Impact Mining Notice of Intent on Mining Leases 15/412, 15/630 and 15/646" (MP 5481) dated 8 September 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0180/200601. • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/630" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150 and 15/630" dated 4 March 2008 and signed by John Williamson and Chuck McCormick (Exp 8530) and retained on Department of Industry and Resources File No. T6903/200701 <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p>		
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No. 1440/89; and • "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; and • "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No. 4027/00. • Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. • "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and • Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> • "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 • Mining Proposal titled: "Low Impact Mining Notice of Intent on Mining Leases 15/412, 15/630 and 15/646" (MP 5481) dated 8 September 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0180/200601. • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/630" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150 and 15/630" dated 4 March 2008 and signed by John Williamson and Chuck McCormick (Exp 8530) and retained on Department of Industry and Resources File No. T6903/200701 <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p>	26/09/2008	17/12/2008

#	CONDITIONS	Start Date	End Date
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and • "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and • "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No: 4027/00. • Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. • "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and • Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> • "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 • Mining Proposal titled: "Low Impact Mining Notice of Intent on Mining Leases 15/412, 15/630 and 15/646" (MP 5481) dated 8 September 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0180/200601. • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/630" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p>	25/07/2007	25/09/2008
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and • "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and • "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No: 4027/00. • Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. • "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and • Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p>	25/05/2007	24/07/2007

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 Mining Proposal titled: "Low Impact Mining Notice of Intent on Mining Leases 15/412, 15/630 and 15/646" (MP 5481) dated 8 September 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0180/200601. Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No. 4027/00. Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 Mining Proposal titled: "Low Impact Mining Notice of Intent on Mining Leases 15/412, 15/630 and 15/646" (MP 5481) dated 8 September 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0180/200601. <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation 		
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No. 4027/00. Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No. 4266/00. "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 Mining Proposal titled: "Low Impact Mining Notice of Intent on Mining Leases 15/412, 15/630 and 15/646" (MP 5481) dated 8 September 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0180/200601. <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation 	03/11/2006	24/05/2007
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation 	06/07/2006	02/11/2006

#	CONDITIONS	Start Date	End Date
	<p>-Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and</p> <ul style="list-style-type: none"> "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No: 4027/00; Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No: 4266/00; "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/151, 15/491 and 15/630" dated 18 May 2006 and signed by Chuck McCormick (MP 5333) and retained on Department of Industry and Resources File No. E0182/200601 <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p>		
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation -Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No: 4027/00; Notice of Intent - Low Impact Mining Operation Scraping and Detecting on Mining Leases 15/491, 15/152 and 15/630" dated July 2000 and signed by Mr Michael Charlton, and retained on Department of Minerals and Energy File No: 4266/00; "Re: Water Pipeline - Lindsay's Waste Dump" dated 19 November 1999 signed by Mr Vince Roberts - Tenement Manager, NOI 3301; and Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>and both documents being retained on Department of Minerals and Energy File No. 2486/99.</p> <ul style="list-style-type: none"> "Notice of Intent - Low Impact mining Operation - Dryblowing, Scraping and detecting on M15/150, M15/227, M15/630, M15/636 (NOI 4747)" dated 12 July 2004 and signed by Mr Vince Roberts and retained on Department of Industry and Resources File No. 4291/00. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p>	27/06/2006	05/07/2006
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation -Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and 	17/09/2004	26/06/2006

Requested By: Georgia Donovan/Page 14 of 27

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> "Addendum - 03 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, (NOI 3335) and retained on Department of Minerals and Energy File No: 4027/00; Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and Re: Water Pipeline Coolgardie" dated 19 November 1999 signed by Mr Vince Roberts, Tenement Manager; <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p>	16/01/2000	20/06/2000
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Lindsay's Open Pit Waste Dump Area" - dated 16 May 1991 and 7 June 1991 and retained on Department of Minerals and Energy File No:1440/89; and "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p>	07/10/1997	15/01/2000
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Notice of Intent Lindsay's Open Pit - Hillside Extension Stage IV and Lindsay's Pit Stage III Development and the Addendum to Notice of Intent Lindsay's Pit Operation - Increase in Waste Dump Height and Size" dated November 1995 and retained on Department of Minerals and Energy File No:2128/95; and <p>Where a difference exists between the above document(s) and the following conditions, then the following conditions shall prevail:</p>	17/01/1997	06/10/1997
12	The development and operation of the project being carried out in such a manner so as to create the minimum practicable disturbance to the existing vegetation and natural landform.	17/01/1997	
13	All topsoil being removed ahead of all mining operations from sites such as pit areas, waste disposal areas, ore stockpile areas, pipeline, haul roads and new access roads and being stockpiled for later respreading or immediately respread as rehabilitation progresses.	17/01/1997	
14	At the completion of operations, all buildings and structures being removed from site or demolished and buried to the satisfaction of the Environmental Officer, DOIR.	17/09/2004	
	At the completion of operations, all buildings and structures being removed from site or demolished and buried to the satisfaction of the State Mining Engineer.	17/01/1997	16/09/2004
15	All rubbish and scrap being progressively disposed of in a suitable manner.	17/01/1997	
16	At the completion of operations, or progressively where possible, all access roads and other disturbed areas being covered with topsoil, deep ripped and revegetated with local native grasses, shrubs and trees to the satisfaction of the Environmental Officer, Department of Industry and Resources DOIR.	17/09/2004	
	At the completion of operations, or progressively where possible, all access roads and other disturbed areas being covered with topsoil, deep ripped and revegetated with local native grasses, shrubs and trees to the satisfaction of the State Mining Engineer.	17/01/1997	16/09/2004
17	Any alteration or expansion of operations within the lease boundaries beyond that outlined in the above document(s), is not to commence until a plan of operations and a programme to safeguard the environment are submitted to the State Mining Engineer for his assessment and until his written approval to proceed has been obtained.	17/01/1997	
18	<p>The lessee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for State Development for due compliance with the environmental conditions of the lease in the sum of:</p> <ul style="list-style-type: none"> \$139,000 	02/07/2001	08/07/2013

#	CONDITIONS	Start Date	End Date
	The lessee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for Mines in the sum of \$184,000 for due compliance with the environmental conditions of the lease.	09/02/1999	01/07/2001
	The lessee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for Mines in the sum of \$274,000 for due compliance with the environmental conditions of the lease.	31/10/1997	08/02/1999
	The lessee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for Mines in the sum of \$548,000 for due compliance with the environmental conditions of the lease.	17/01/1997	30/10/1997
19	The Lessee submitting to the Executive Director, Environment Division, DMP, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This report to be submitted each year in: <ul style="list-style-type: none"> January 	02/09/2014	03/06/2022
	The Lessee submitting to the Executive Director, Environment Division, DMP, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This report to be submitted each year in: <ul style="list-style-type: none"> October. 	30/05/2012	01/09/2014
	The lessee submitting to the Director, Environment Division, DoIR, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This report to be submitted each year in: <ul style="list-style-type: none"> August. 	26/11/2008	29/05/2012
	The lessee submitting to the Environmental Officer, DOIR, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This report to be submitted each year in: <ul style="list-style-type: none"> May 	25/11/2008	25/11/2008
	The lessee submitting to the Director, Environment Division, DoIR, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This report to be submitted each year in: <ul style="list-style-type: none"> August. 		
	The lessee submitting to the Environmental Officer, DOIR, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This report to be submitted each year in: <ul style="list-style-type: none"> May 	17/09/2004	24/11/2008
	The lessee submitting to the State Mining Engineer in May of each year, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months.	19/12/2000	16/09/2004
	The lessee submitting to the State Mining Engineer in August of each year, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months.	17/01/1997	18/12/2000
20	The lessee to construct a rock armoured drain around the north west toe of the dump in accordance with cross section C.-c on plan 6 provided to divert water from Italian gully into its proper course.	17/01/1997	
21	The lessee to redirect vertical drain on the north west corner to a north-east direction so that run off is directed to Italian Gully.	17/01/1997	
22	The lessee constructing a continuous bund wall around the perimeter of the dump to the satisfaction of the State Mining Engineer.	17/01/1997	
23	The lessee rehabilitating the surfaces of the waste dump with perennial vegetative cover to the satisfaction of the State Mining Engineer and providing an annual report of the extent and distribution of the cover.	17/01/1997	

#	CONDITIONS	Start Date	End Date
24	The waste dump not exceeding a height of 35m without the prior written approval of the State Mining Engineer.	17/01/1997	
25	For every 10 metres of vertical height, the waste dump having a maximum 4 metre wide berm being used as a water catchment with a 0.5% slope to a rocklined waterway or waterways removing excess water runoff from the waste dump without causing erosion. This berm remaining in place after rehabilitation.	07/10/1997	08/02/2005
26	The outslopes of the waste dump not exceeding 20 degrees from the horizontal and being covered with topsoil, deep ripped on the contour and reseeded with local native trees, shrubs and grass seed.	07/10/1997	
27	A maximum of two (2), one (1) hectare sites to be open at one time with only one site being actively worked. The Environmental Officer is to be notified immediately following the reconstitution of each one (1) hectare of area worked, by scraping and detecting and dry blowing and work not proceeding further until his/her approval is granted.	19/12/2000	
28	The Environmental Officer is to be notified in writing upon completion of all scraping and detecting activities so that an inspection may be arranged.	17/09/2004	
29	A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified in tenement conditions in the year specified below, unless otherwise directed by an Environmental Officer, DMP. The Mine Closure Plan is to be prepared in accordance with the "Guidelines for Preparing Mine Closure Plans" available on DMP's website: <ul style="list-style-type: none"> 2015: A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified in tenement conditions in the year specified below, unless otherwise directed by an Environmental Officer, DMP. The Mine Closure Plan is to be prepared in accordance with the "Guidelines for Preparing Mine Closure Plans" available on DMP's website: <ul style="list-style-type: none"> 2012: 	04/06/2013	21/07/2017
30	A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified in tenement conditions in the year specified below, unless otherwise directed by the Executive Director Resource and Environmental Compliance Division, Department of Mines, Industry Regulation and Safety. The Mine Closure Plan is to be prepared in accordance with the Department's "Guidelines for Preparing Mine Closure Plans": <ul style="list-style-type: none"> 2020 A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified in tenement conditions in the year specified below, unless otherwise directed by an Environmental Officer, DMP. The Mine Closure Plan is to be prepared in accordance with the "Guidelines for Preparing Mine Closure Plans" available on DMP's website: <ul style="list-style-type: none"> 2018 	09/08/2018	03/06/2022
31	On the completion of operations or progressively when possible, all waste dumps, tailings storage facilities, stockpiles or other mining related landforms must be rehabilitated to form safe, stable, non-polluting structures which are integrated with the surrounding landscape and support self sustaining, functional ecosystems comprising suitable, local provenance species or alternative agreed outcome to the satisfaction of the Executive Director, Environment Division, DMP.	21/07/2017	08/08/2018
32	Management of mine closure to be undertaken in accordance with the latest, relevant, approved Mine Closure Plan.	03/06/2022	
33	An annual environmental report is to be submitted to the Executive Director, Resource and Environmental Compliance, Department of Mines, Industry Regulation and Safety, outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programs for the next 12 months. This report is to be submitted each year in: <ul style="list-style-type: none"> January 	03/06/2022	
34	A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified in tenement conditions in the year specified below, unless otherwise directed by the Executive Director Resource and Environmental Compliance Division, Department of Mines, Industry Regulation and Safety. The Mine Closure Plan is to be prepared in accordance with the Department's "Guidelines for Preparing Mine Closure Plans": <ul style="list-style-type: none"> 2024 	03/06/2022	

DEALINGS DETAILS

Dealings

Encumbrances

Application to Amend CO82/934	Lodged 3:20:00 PM on 08 Sep 1993 amending total number of shares to "200" REGISTERED 3:20 PM 08 Sep 1993
Bond PE1876	Lodged on 20 Sep 1994 For \$15,000.00 RECORDED 20 Sep 1994 RETIRED 08 Jan 1998
Bond PE2575	Lodged on 25 Jan 1996 For \$259,000.00 RECORDED 25 Jan 1996 RETIRED 08 Jan 1998
Mortgage 43H/956	Lodged 3:10:00 PM on 28 Mar 1996 in favour of CITIBANK LTD REGISTERED 3:10 PM 28 Mar 1996 Discharged by Withdrawal 369H/967 lodged 2:50:00 PM on 12 Mar 1997
Bond PE3088	Lodged on 03 Dec 1996 For \$15,000.00 RECORDED 03 Dec 1996 RETIRED 08 Jan 1998
Bond PE3092	Lodged on 03 Dec 1996 For \$259,000.00 RECORDED 03 Dec 1996 RETIRED 08 Jan 1998
Mortgage - Discharge 369H/967	In respect to Mortgage 43H/956 lodged 2:50:00 PM on 12 Mar 1997 REGISTERED 2:50 PM 12 Mar 1997
Mortgage 12H/978	Lodged 3:00:00 PM on 02 Oct 1997 in favour of CITIBANK LTD REGISTERED 3:00 PM 02 Oct 1997 Discharged by Withdrawal 303H/989 lodged 2:50:00 PM on 14 Jun 1999
Bond PE3709	Lodged on 14 Nov 1997 For \$274,000.00 RECORDED 14 Nov 1997 RETIRED 11 Nov 1998
Bond PE4484	Lodged on 22 Sep 1998 For \$274,000.00 RECORDED 16 Sep 1998 RETIRED 16 Aug 2001
Mortgage - Discharge 303H/989	In respect to Mortgage 12H/978 lodged 2:50:00 PM on 14 Jun 1999 REGISTERED 2:50 PM 14 Jun 1999
Agreement 31H/990	Agreement (Coolgardie Joint Venture) HERALD RESOURCES LTD, MPI GOLD PTY LTD, MINING PROJECT INVESTORS PTY LTD, PITTSTON MINERALS VENTURES OF AUSTRALIA PTY LTD, PITTSTON MINERAL VENTURES COMPANY, HERALD OPERATIONS PTY LTD and GOLDFAN LTD Lodged 11:00:00 AM on 06 Dec 1999 REGISTERED 11:00 AM 06 Dec 1999
Agreement 32H/990	Agreement (Variation - Coolgardie Joint Venture.) HERALD RESOURCES LTD, HERALD OPERATIONS PTY LTD, GOLDFAN LTD, MPI GOLD PTY LTD, PITTSTON MINERALS VENTURES OF AUSTRALIA PTY LTD, PITTSTON MINERAL VENTURES COMPANY and MINING PROJECT INVESTORS PTY LTD Lodged 11:00:00 AM on 06 Dec 1999 REGISTERED 11:00 AM 06 Dec 1999
Caveat 462H/990	Lodged 11:00:00 AM on 06 Dec 1999 by MINING PROJECT INVESTORS PTY LTD RECORDED 11:00 AM 06 Dec 1999 Re Mortgage 24H/001 14 days notice sent 04 Apr 2001 Order under Section 121 (1) (c) that caveat remains in full force and effect upon expiry of 14 days notice, signed G Calder Warden 18 Apr 2001 Re: Agreements 120H/012 to 122H/012: 14 days notice sent 26 Jun 2002. Order under Section 121 (1) (c) that caveat remains in full force and effect upon expiry of 14 days notice, signed G. Calder Warden on 09 Jul 2002. Re: Mortgage 5H/023: 14 days notice sent 29 Jul 2002.

	Order under Section 121 (1) (c) that caveat remains in full force and effect upon expiry of 14 days notice, signed G. Calder Warden on 07 Aug 2002. Re Agreements 102H/023 to 106H/023 14 day notice sent 04 Jun 2003 LAPSED 12:00 Midnight on 18 Jun 2003
Mortgage 24H/001	Lodged 3:30:00 PM on 19 Mar 2001 in favour of MACQUARIE BANK LTD REGISTERED 10:00 AM 18 Apr 2001 Discharged by Withdrawal 191429 lodged 2:44:00 PM on 23 Dec 2005
Bond Requirement 312214	Requirement Date: 02/07/2001 Amount: \$139,000.00 RECORDED: 11:51:27 02 July 2001
Bond PE6626	Lodged 8:05:00 AM on 09 Aug 2001 For \$139,000.00 RECORDED 8:05 AM 09 Aug 2001 RETIRED 28 Aug 2002
Agreement 120H/012	Agreement (Joint Venture) HERALD RESOURCES LTD, HERALD OPERATIONS PTY LTD, GOLDFAN LTD, MPI GOLD PTY LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD, MINING PROJECT INVESTORS PTY LTD and PITTSTON MINERAL VENTURES CO. Lodged 11:25:00 AM on 12 Jun 2002 REGISTERED 10:00 AM 09 Jul 2002
Agreement 122H/012	Agreement (Deed of Cross Charge) GOLDFAN LTD, HERALD OPERATIONS PTY LTD, MPI GOLD PTY LTD and PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD Lodged 11:25:00 AM on 12 Jun 2002 REGISTERED 10:00 AM 09 Jul 2002
Agreement 121H/012	Agreement (Joint Venture) MPI GOLD PTY LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD, HERALD OPERATIONS PTY LTD and GOLDFAN LTD Lodged 11:25:00 AM on 12 Jun 2002 REGISTERED 10:00 AM 09 Jul 2002
Mortgage 5H/023	Lodged 10:20 AM on 15 Jul 2002 in favour of MACQUARIE BANK LTD REGISTERED 10:00 AM 07 Aug 2002 Discharged by Withdrawal 191430 lodged 2:44:00 PM on 23 Dec 2005
Caveat 38H/023	Lodged 4:00:00 PM on 18 Jul 2002 by MACQUARIE BANK LTD in respect to 200/200ths shares in the name of GOLDFAN LTD RECORDED 10:00 AM 07 Aug 2002 Re Agreements 102H/023 to 106H/023 14 day notice sent 04 Jun 2003. Caveat to remain in full force and effect by order of Warden Heaney on 18 Jun 2003 Re Agreement 2H/034 14 day notice sent 23 Jul 2003 Caveat to remain in full force and effect by order of Warden Heaney on 31 Jul 2003 WITHDRAWN 2:44 PM 23 Dec 2005
Bond PE7603	Lodged 9:30:00 AM on 07 Aug 2002 For \$139,000.00 RECORDED 9:30 AM 07 Aug 2002 RETIRED 07 Mar 2006
Caveat 321H/023	Lodged 4:20:00 PM on 19 Nov 2002 by MACQUARIE BANK LTD in respect to 100/200ths shares in the name of GOLDFAN LTD REJECTED 4:20 PM 19 Nov 2002 RELODGED 10:00 AM 04 Dec 2002 RECORDED 10:00 AM 04 Dec 2002 Re Agreements 102H/023 to 106H/023 14 day notice sent 04 Jun 2003. Caveat to remain in full force and effect by order of Warden Heaney on 18 Jun 2003 Re Agreement 2H/034 14 day notice sent 23 Jul 2003.

	Caveat to remain in full force and effect by order of Warden Heaney on 31 Jul 2003 WITHDRAWN 2:44 PM 23 Dec 2005
Agreement 102H/023	Agreement (Deed of Assignment and Assumption- Heads of Agreement- PWAMC) HERALD OPERATIONS PTY LTD, HERALD RESOURCES LTD, GOLDFAN LTD, COOLGARDIE OPERATIONS PTY LTD, MINING PROJECT INVESTORS PTY LTD, PITTSTON MINERAL VENTURES CO., PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD and PITTSTON WESTERN AUSTRALIAN MINERALS COMPANY PTY LTD Lodged 10:45 AM on 06 May 2003 REGISTERED 8:30 AM 19 Jun 2003
Agreement 103H/023	Agreement (Deed of Assignment and Assumption - Heads of Agreement - COPL) HERALD RESOURCES LTD, HERALD OPERATIONS PTY LTD, GOLDFAN LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD, MINING PROJECT INVESTORS PTY LTD, PITTSTON MINERAL VENTURES CO., MPI GOLD PTY LTD and COOLGARDIE OPERATIONS PTY LTD Lodged 10:45:00 AM on 06 May 2003 REGISTERED 8:30 AM 19 Jun 2003
Agreement 104H/023	Agreement (Deed of Assignment and Assumption - Mining Joint Venture Agreement - PWAMC) HERALD OPERATIONS PTY LTD, GOLDFAN LTD, COOLGARDIE OPERATIONS PTY LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD and PITTSTON WESTERN AUSTRALIAN MINERALS COMPANY PTY LTD Lodged 10:45:00 AM on 06 May 2003 REGISTERED 8:30 AM 19 Jun 2003
Agreement 105H/023	Agreement (Deed of Assignment and Assumption - Mining Joint Venture Agreement - COPL) HERALD OPERATIONS PTY LTD, GOLDFAN LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD, MPI GOLD PTY LTD and COOLGARDIE OPERATIONS PTY LTD Lodged 10:45:00 AM on 06 May 2003 REGISTERED 8:30 AM 19 Jun 2003
Agreement 106H/023	Agreement (Deed of Cross Charge) GOLDFAN LTD, COOLGARDIE OPERATIONS PTY LTD and PITTSTON WESTERN AUSTRALIAN MINERALS COMPANY PTY LTD Lodged 10:45:00 AM on 06 May 2003 REGISTERED 8:30 AM 19 Jun 2003
Agreement 2H/034	Agreement (Deed of Variation) HERALD OPERATIONS PTY LTD, GOLDFAN LTD, MPI GOLD PTY LTD and PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD Lodged 2:35:00 PM on 17 Jul 2003 REGISTERED 10:00 AM 31 Jul 2003
Caveat 43H/034	Lodged 4:02 PM on 07 Aug 2003 by MPI MINES LTD Leave to Lodge Successive caveat granted by the Warden on 22 Aug 2003 RECORDED 10:00 AM 22 Aug 2003 WITHDRAWN 2:44 PM 23 Dec 2005
Caveat 160H/056	Lodged 2:48 PM on 05 Aug 2005 by AUSTMINEX LTD RECORDED 2:48 PM 05 Aug 2005 Re Transfers 925H/056 and 1018H/056 14 day notice sent 20 Jan 2006. LAPSED 12:00 Midnight on 03 Feb 2006
Mortgage - Discharge 191429	In respect to Mortgage 24H/001 lodged 2:44:00 PM on 23 Dec 2005 REGISTERED 2:44 PM 23 Dec 2005
Mortgage - Discharge 100H/056	In respect to Mortgage 5H/023 lodged 2:44:00 PM on 23 Dec 2005 REGISTERED 2:44 PM 23 Dec 2005
Withdrawal of Dealing 102H/056	Lodged 2:44:00 PM on 23 Dec 2005 withdrawing Caveat 321H/023 REGISTERED 2:44 PM 23 Dec 2005
Withdrawal of Dealing 103H/056	Lodged 2:44:00 PM on 23 Dec 2005 withdrawing Caveat 38H/023 REGISTERED 2:44 PM 23 Dec 2005
Withdrawal of Dealing 104H/056	Lodged 2:44:00 PM on 23 Dec 2005 withdrawing Caveat 43H/034 REGISTERED 2:44 PM 23 Dec 2005

Bond 234281	Lodged on 01 Mar 2006 For \$139,000.00 RECORDED 01 Mar 2006 RETIRED 13 Oct 2008
Bond 297173	Lodged 4:00 PM on 11 Aug 2008 For \$139,000.00 (Unconditional Performance Bond) REJECTED 4:00 PM 11 Aug 2008 RELODGED 4:30 PM 21 Aug 2008 RECORDED 4:30 PM 21 Aug 2008 RETIRED: 31 July 2014
Application to Amend 423370	Lodged: 09:55 16 May 2013 REJECTED: 09:55 16 May 2013
Extension / Renewal of Term 435741	Lodged: 11:45 25 November 2013 Applied For Period: 21 Years RECORDED: 11:45 25 November 2013 GRANTED: 02 January 2014 Granted Period: 21 Years Term Renewed To: 04/02/2035
Application to Amend 448467	Lodged: 15:32 09 June 2014 Amending: Address From: FOCUS OPERATIONS PTY LTD, C/- KEN MAGUIRE, 9 CHUDLEIGH STREET, FREMANTLE, WA, 6160 To: FOCUS OPERATIONS PTY LTD, C/-MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931 RECORDED: 15:32 09 June 2014
Application to Amend 448468	Lodged: 15:32 09 June 2014 Amending: Address From: FOCUS MINERALS LTD, C/- ATTN: KEN MAGUIRE: TENEMENT ADMINISTRATION, 9 CHUDLEIGH STREET, FREMANTLE, WA, 6160 To: FOCUS MINERALS LTD, C/- MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931 RECORDED: 15:32 09 June 2014
Bond 451679	Lodged: 14:15 25 July 2014 Bond Type: Unconditional Performance Bond Bond Amount: \$139,000.00 RECORDED: 25 July 2014 RETIRED: 30 September 2014
Bond 455114	Lodged: 09:30 22 September 2014 Bond Type: Unconditional Performance Bond Bond Amount: \$139,000.00 RECORDED: 22 September 2014
Application to Amend 491515	Lodged: 08:30 01 August 2016 Amending: Address (Including DTC Details) From: Principal Place of Business : FOCUS OPERATIONS PTY LTD, SAME AS CORRESPONDENCE and DTC :FOCUS OPERATIONS PTY LTD, C/-MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931 To: Principal Place of Business : FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400

RECORDED: 08:30 01 August 2016

Lodged: 13:38:30 01 August 2016
Amending: Address (Including DTC Details)
From: Principal Place of Business : FOCUS MINERALS LTD, SAME AS CORRESPONDENCE and DTC :FOCUS MINERALS LTD, C/- MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931

To: Principal Place of Business : FOCUS
MINERALS LTD, C/- AUSTWIDE MINING
TITLE MANAGEMENT PTY LTD, PO
BOX 1434, WANGARA, WA, 6947,
reception@austwidemining.com.au, 089309 0400
and DTC :FOCUS MINERALS LTD, AUSTWIDE
MINING TITLE MANAGEMENT PTY LTD, C/-
AUSTWIDE MINING TITLE MANAGEMENT PTY
LTD, PO BOX 1434, WANGARA, WA, 6947,
reception@austwidemining.com.au, 089309 0400

RECORDED: 13:38:30 01 August 2016

Lodged: 16:27:46 02 August 2019

Amending: Address (Including DTC Details)

From: Principal Place of Business : FOCUS MINERALS LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400 and DTC :FOCUS MINERALS LTD, AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400

To: Principal Place of Business : FOCUS
MINERALS LTD, C/- AUSTWIDE MINING
TITLE MANAGEMENT PTY LTD, PO
BOX 1434, WANGARA DC, WA, 6947,
reception@austwidemining.com.au, 089309
0400 and DTC :FOCUS MINERALS LTD,
TENEMENT AND LAND ADMINISTRATION,
PO BOX 3233, EAST PERTH, WA, 6892,
tenements@focusminerals.com.au. 92157888

RECORDED: 16:27:46 02 August 2019

Lodged: 16:27:46 02 August 2019
Amending: Address (Including DTC Details)
From: Principal Place of Business : FOCUS
OPERATIONS PTY LTD, LEVEL 2, 159
ADELAIDE TERRACE, EAST PERTH,
WA, 6004, EAST PERTH, WA, 6004,
tenements@focusminerals.com.au, 92157888
and DTC :FOCUS OPERATIONS PTY LTD,
FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE
MINING TITLE MANAGEMENT PTY LTD, PO
BOX 1434, WANGARA, WA. 6947. 089309 0400

Requested By: Georgia Donovan/Page 22 of 27

					PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888
				RECORDED:	16:27:46 02 August 2019
Application to Amend 559751				Lodged:	16:27:47 02 August 2019
				Amending:	Address (Including DTC Details)
				From:	FOCUS MINERALS LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA DC, WA, 6947, reception@austwidemining.com.au, 089309 0400
				To:	FOCUS MINERALS LTD, LEVEL 2, 159 ADELAIDE TERRACE, EAST PERTH, WA, 6004, tenements@focusminerals.com.au, 92157888
				RECORDED:	16:27:47 02 August 2019
Application to Amend 559752				Lodged:	16:27:47 02 August 2019
				Amending:	Address (Including DTC Details)
				From:	FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400
				To:	FOCUS OPERATIONS PTY LTD, LEVEL 2, 159 ADELAIDE TERRACE, EAST PERTH, WA, 6004, tenements@focusminerals.com.au, 92157888
				RECORDED:	16:27:47 02 August 2019
Application for Forfeiture 572925				Lodged:	16:00:07 24 February 2020
				Applicant:	BROSNAN, Allan Neville, EVERETT, Chadwick Doughton, HULL, Jeffrey
				Respondent:	FOCUS MINERALS LTD, FOCUS OPERATIONS PTY LTD
				RECORDED:	16:00:07 24 February 2020
				By consent of the parties on the 24th of September 2020 the Warden Ordered the Dismissal of the Application for Forfeiture with no order as to cost.	
				Warden's Determination:	Dismissed 24/09/2020 13:30:00
Objection 575705				Lodged:	10:06:21 08 April 2020
				Objectors:	BROSNAN, Allan Neville, EVERETT, Chadwick Doughton, HULL, Jeffrey
				Objection Type:	Exemption From Expenditure
				RECORDED:	10:06:21 08 April 2020
				WITHDRAWN:	13:30 24 September 2020
Application to Amend 577037				Lodged:	12:56:22 30 April 2020
				Amending:	Address (Including DTC Details)
				From:	FOCUS MINERALS LTD, TENEMENT AND LAND ADMINISTRATION, PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888
				To:	FOCUS MINERALS LTD, TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888
				RECORDED:	12:56:22 30 April 2020
Application to Amend 577038				Lodged:	12:56:22 30 April 2020
				Amending:	Address (Including DTC Details)
				From:	FOCUS OPERATIONS PTY LTD, TENEMENT AND LAND ADMINISTRATION, PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888
				To:	FOCUS OPERATIONS PTY LTD, TENEMENTS AND LAND (COOLGARDIE),

Application to Amend 700011	RECORDED:	PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888 12:56:22 30 April 2020
	Lodged:	12:45:01 28 March 2024
	Amending:	Address (Including DTC Details)
	From:	FOCUS OPERATIONS PTY LTD, LEVEL 2, 159 ADELAIDE TERRACE, EAST PERTH, WA, 6004, tenements@focusminerals.com.au, 92157888
	To:	FOCUS OPERATIONS PTY LTD, LEVEL 5, 8 ST GEORGES TERRACE, PERTH, WA, 6000, tenements@focusminerals.com.au, 92157888
Application to Amend 700012	RECORDED:	12:45:01 28 March 2024
	Lodged:	12:45:01 28 March 2024
	Amending:	Address (Including DTC Details)
	From:	FOCUS MINERALS LTD, LEVEL 2, 159 ADELAIDE TERRACE, EAST PERTH, WA, 6004, tenements@focusminerals.com.au, 92157888
	To:	FOCUS MINERALS LTD, LEVEL 5, 8 ST GEORGES TERRACE, PERTH, WA, 6000, tenements@focusminerals.com.au, 92157888
	RECORDED:	12:45:01 28 March 2024

BOND DETAILS

Bond	Surety	Amount	Bond date	Bond status	Bond status date
455114	BANK OF CHINA (AUSTRALIA) LIMITED	\$139,000.00	22/09/2014	Recorded	22/09/2014
451679	AUSTRALIA AND NEW ZEALAND BANKING GROUP LTD	\$139,000.00	25/07/2014	Retired	30/09/2014
297173	INVESTEC BANK (AUSTRALIA) LTD	\$139,000.00	21/08/2008	Retired	31/07/2014
234281	MACQUARIE BANK LTD	\$139,000.00	01/03/2006	Retired	13/10/2008
PE7603	MACQUARIE BANK LTD	\$139,000.00	07/08/2002	Retired	07/03/2006
PE6626	ALLIANZ AUSTRALIA INSURANCE LTD	\$139,000.00	09/08/2001	Retired	28/08/2002
PE4484	MMI GENERAL INSURANCE LTD	\$274,000.00	22/09/1998	Retired	16/08/2001
PE3709	CITIBANK LIMITED	\$274,000.00	14/11/1997	Retired	11/11/1998
PE3088	CITIBANK LIMITED	\$15,000.00	03/12/1996	Retired	08/01/1998
PE3092	CITIBANK LIMITED	\$259,000.00	03/12/1996	Retired	08/01/1998
PE2575	CITIBANK LIMITED	\$259,000.00	25/01/1996	Retired	08/01/1998
PE1876	CITIBANK LIMITED	\$15,000.00	20/09/1994	Retired	08/01/1998

RENT DETAILS

Rent Payments

Type	Year	Receipt Date	Payment No	Receipt No	MR Lodged	Amount	Rental Area	Effective Date	Amount Due	Discrepancy
Payment	2025	20/02/2024	1754095394	10510777	OL	\$7,748.00	297.45000 HA	15/11/2004	\$7,748.00	\$0.00
Payment	2024	20/02/2023	3817039591	10329925	OL	\$7,152.00	297.45000 HA	15/11/2004	\$7,152.00	\$0.00
Payment	2023	21/02/2022	5140669820	10243764	OL	\$6,556.00	297.45000 HA	15/11/2004	\$6,556.00	\$0.00
Payment	2022	15/02/2021	1693398826	10183392	OL	\$5,960.00	297.45000 HA	15/11/2004	\$5,960.00	\$0.00
Payment	2021	10/02/2020	4996274991	10132718	OL	\$5,900.40	297.45000 HA	15/11/2004	\$5,900.40	\$0.00
Payment	2020	25/01/2019	2876721115	10083681	OL	\$5,572.60	297.45000 HA	15/11/2004	\$5,572.60	\$0.00
Payment	2019	19/12/2017	6337952094	MT-210011395292-EF	OL	\$5,244.80	297.45000 HA	15/11/2004	\$5,244.80	\$0.00
Payment	2018	02/02/2017		MT-210010885626-EF	OL	\$5,080.90	297.45000 HA	15/11/2004	\$5,080.90	\$0.00
Payment	2017	29/02/2016		MT-210010486549-EF	OL	\$4,917.00	297.45000 HA	15/11/2004	\$4,917.00	\$0.00

Type	Year	Receipt Date	Payment No	Receipt No	MR Lodged	Amount	Rental Area	Effective Date	Amount Due	Discrepancy
Payment	2016	06/02/2015		MT-210010230518-EF	OL	\$4,797.80	297.45000 HA	15/11/2004	\$4,797.80	\$0.00
Payment	2015	25/11/2013		06-130761	PE	\$4,678.60	297.45000 HA	15/11/2004	\$4,678.60	\$0.00
Payment	2014	05/02/2013		01-012044	CO	\$4,589.20	297.45000 HA	15/11/2004	\$4,589.20	\$0.00
Payment	2013	30/01/2012		10910	CO	\$4,470.00	297.45000 HA	15/11/2004	\$4,470.00	\$0.00
Payment	2012	31/01/2011		9553	CO	\$4,753.10	297.45000 HA	15/11/2004	\$4,753.10	\$0.00
Payment	2011	29/01/2010		7716	CO	\$4,654.76	297.45000 HA	15/11/2004	\$4,654.76	\$0.00
Payment	2010	04/02/2009		61077	PE	\$4,458.08	297.45000 HA	15/11/2004	\$4,458.08	\$0.00
Payment	2009	05/02/2008		8641	KA	\$4,326.96	297.45000 HA	15/11/2004	\$4,326.96	\$0.00
Payment	2008	02/02/2007		5771	KA	\$4,130.28	297.45000 HA	15/11/2004	\$4,130.28	\$0.00
Payment	2007	22/02/2006		3509	KA	\$3,999.16	297.45000 HA	15/11/2004	\$3,999.16	\$0.00
Refund	2006	08/02/2005		(REFUND) 7641	PE	\$1,546.78	297.45000 HA	15/11/2004	\$3,900.82	-\$1,402.79
Payment	2006	08/02/2005		7641	PE	\$4,044.81				
Payment	2005	13/02/2004		69075	PE	\$3,942.84	297.45000 HA	15/11/2004	\$3,802.48	\$140.36
Payment	2004	14/02/2003		57433	PE	\$3,806.88	297.45000 HA	15/11/2004	\$3,671.36	\$135.52
Payment	2003	12/02/2002		45473	PE	\$3,337.20	297.45000 HA	15/11/2004	\$3,576.00	\$132.00
Payment	2003	12/02/2002		45475	PE	\$370.80				
Payment	2002	15/02/2001		33487	PE	\$350.10	297.45000 HA	15/11/2004	\$3,376.34	\$124.63
Payment	2002	15/02/2001		33486	PE	\$3,150.87				
Payment	2001	09/08/2000		26303	PE	\$190.44	297.45000 HA	15/11/2004	\$3,253.06	\$120.08
Payment	2001	11/02/2000		19982	PE	\$3,182.70				
Payment	2000	26/02/1999		8398	PE	\$3,182.70	297.45000 HA	15/11/2004	\$3,069.40	\$113.30
Payment	1999	25/02/1998		174952	PE	\$3,090.00	297.45000 HA	15/11/2004	\$2,980.00	\$110.00
Payment	1998	23/01/1997		17032	CO	\$3,090.00	297.45000 HA	15/11/2004	\$2,980.00	\$110.00
Payment	1997	01/02/1996		13598	CO	\$3,090.00	297.45000 HA	15/11/2004	\$2,980.00	\$110.00
Payment	1996	13/12/1994		9499	CO	\$2,873.70	297.45000 HA	15/11/2004	\$2,771.40	\$102.30
Payment	1995	24/01/1994		6542	CO	\$2,873.70	297.45000 HA	15/11/2004	\$2,771.40	\$102.30
Payment	1994	17/06/1992		1884	CO	\$2,873.70	297.45000 HA	15/11/2004	\$2,771.40	\$102.30

EXPENDITURE/EXEMPTION DETAILS

Expenditure/Exemptions

Year	Minimum Expenditure	Expenditure Lodged	Total Expenditure	Exemption Amount	Exemption Lodged	Exemption Number	Exemption Status	Outcome Date
2025	\$29,800.00							
2024	\$29,800.00	04/04/2024	\$25,551.95	\$29,800.00	04/04/2024	700395	Granted	16/07/2024
2023	\$29,800.00	05/04/2023	\$26,082.00	\$29,800.00	05/04/2023	672637	Granted	23/05/2023
2022	\$29,800.00	05/04/2022	\$32,781.00					
2021	\$12,416.00	06/04/2021	\$15,014.00					
2020	\$29,800.00	03/04/2020	\$18,697.00	\$29,800.00	03/04/2020	575532	Granted	29/09/2020
2019	\$29,800.00	04/04/2019	\$27,342.25	\$29,800.00	04/04/2019	551007	Granted	15/05/2019
2018	\$29,800.00	07/03/2018	\$32,189.83					
2017	\$29,800.00	06/02/2017	\$33,835.40					
2016	\$29,800.00	16/02/2016	\$36,067.00					
2015	\$29,800.00	19/03/2015	\$44,486.00					
2014	\$29,800.00	04/02/2014	\$39,668.00					
2013	\$29,800.00	02/04/2013	\$33,519.27					
2012	\$29,800.00	08/03/2012	\$74,612.00					
2011	\$29,800.00	28/02/2011	\$33,400.00					
2010	\$29,800.00	10/03/2010	\$30,780.00					
2009	\$29,800.00	12/03/2009	\$31,027.00					
2008	\$29,800.00	12/03/2008	\$29,988.00					
2007	\$29,800.00	09/03/2007	\$48,596.00					

Year	Minimum Expenditure	Expenditure Lodged	Total Expenditure	Exemption Amount	Exemption Lodged	Exemption Number	Exemption Status	Outcome Date
2006	\$29,800.00	03/04/2006	\$37,008.62					
2005	\$30,717.00	21/03/2005	\$388,144.00					
2004	\$30,900.00	12/03/2004	\$190,054.00					
2003	\$30,900.00	31/03/2003	\$94,575.00					
2002	\$30,900.00	28/03/2002	\$35,277.00					
2001	\$30,900.00	23/03/2001	\$31,988.00	\$30,900.00	26/03/2001	CO328/001	Withdrawn	04/02/2001
2000	\$30,900.00	28/03/2000	\$70,031.00					
1999	\$30,900.00	25/03/1999	\$24,325.00	\$6,575.00	26/03/1999	CO390/989	Granted	05/05/1999
1998	\$30,900.00	23/03/1998	\$31,173.00					
1997	\$30,900.00	04/04/1997	\$61,612.00					
1996	\$30,900.00	09/05/1996	\$1,681,694.00					
1995	\$30,900.00	20/04/1995	\$50,339.00					
1994	\$30,900.00	28/03/1994	\$61,726.00					

Expenditure Details

Year	Lodged	Exploration Activities	Mining Activities	Aboriginal Survey	Rent/Rates	Admin.	Prospecting	Total Expenditure
2024	04/04/2024	\$4,036.69	\$0.00	\$0.00	\$15,555.62	\$5,959.64	\$0.00	\$25,551.95
2023	05/04/2023	\$376.00	\$5,626.00	\$0.00	\$14,120.00	\$5,960.00	\$0.00	\$26,082.00
2022	05/04/2022	\$0.00	\$10,747.00	\$3,481.00	\$12,642.00	\$5,911.00	\$0.00	\$32,781.00
2021	06/04/2021	\$121.00	\$0.00	\$0.00	\$12,391.00	\$2,502.00	\$0.00	\$15,014.00
2020	03/04/2020	\$0.00	\$1,166.00	\$0.00	\$11,797.00	\$5,734.00	\$0.00	\$18,697.00
2019	04/04/2019	\$14,365.00	\$0.00	\$0.00	\$11,107.49	\$1,869.76	\$0.00	\$27,342.25
2018	07/03/2018	\$15,654.00	\$0.00	\$0.00	\$10,755.83	\$5,780.00	\$0.00	\$32,189.83
2017	06/02/2017	\$17,468.00	\$0.00	\$0.00	\$10,407.40	\$5,960.00	\$0.00	\$33,835.40
2016	16/02/2016	\$20,553.00	\$0.00	\$0.00	\$9,554.00	\$5,960.00	\$0.00	\$36,067.00
2015	19/03/2015	\$28,228.00	\$0.00	\$0.00	\$8,844.00	\$7,414.00	\$0.00	\$44,486.00
2014	04/02/2014	\$24,300.00	\$0.00	\$0.00	\$8,757.00	\$6,611.00	\$0.00	\$39,668.00
2013	02/04/2013	\$19,331.78	\$0.00	\$0.00	\$8,227.49	\$5,960.00	\$0.00	\$33,519.27
2012	08/03/2012	\$60,510.00	\$0.00	\$0.00	\$8,142.00	\$5,960.00	\$0.00	\$74,612.00
2011	28/02/2011	\$19,503.00	\$0.00	\$0.00	\$7,937.00	\$5,960.00	\$0.00	\$33,400.00
2010	10/03/2010	\$17,043.00	\$0.00	\$0.00	\$7,777.00	\$5,960.00	\$0.00	\$30,780.00
2009	12/03/2009	\$17,378.00	\$0.00	\$0.00	\$7,689.00	\$5,960.00	\$0.00	\$31,027.00
2008	12/03/2008	\$9,371.00	\$7,151.00	\$0.00	\$7,506.00	\$5,960.00	\$0.00	\$29,988.00
2007	09/03/2007	\$35,598.00	\$0.00	\$0.00	\$7,058.00	\$5,940.00	\$0.00	\$48,596.00
2006	03/04/2006	\$24,059.00	\$0.00	\$0.00	\$6,989.62	\$5,960.00	\$0.00	\$37,008.62
2005	21/03/2005	\$751.00	\$374,370.00	\$0.00	\$6,843.00	\$6,180.00	\$0.00	\$388,144.00
2004	12/03/2004	\$10,946.00	\$172,700.00	\$0.00	\$6,059.00	\$349.00	\$0.00	\$190,054.00
2003	31/03/2003	\$11,105.00	\$75,913.00	\$0.00	\$5,420.00	\$2,137.00	\$0.00	\$94,575.00
2002	28/03/2002	\$7,561.00	\$21,020.00	\$0.00	\$5,184.00	\$1,512.00	\$0.00	\$35,277.00
2001	23/03/2001	\$10,014.00	\$15,228.00	\$0.00	\$4,743.00	\$2,003.00	\$0.00	\$31,988.00
2000	28/03/2000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$70,031.00
1999	25/03/1999	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24,325.00
1998	23/03/1998	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$31,173.00
1997	04/04/1997	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$61,612.00
1996	09/05/1996	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,681,694.00
1995	20/04/1995	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,339.00
1994	28/03/1994	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$61,726.00

COMBINED REPORTING DETAILS

C Number : 93/2007
Project : Coolgardie

Reporting Date : 28/02
Affecting Period : 01/01 - 31/12

Active Tenements:

M 15/23 (11/10/2007)	M 15/150 (11/10/2007)	M 15/154 (11/10/2007)
M 15/237 (10/03/2011)	M 15/277 (11/10/2007)	M 15/365 (11/10/2007)
M 15/384 (11/10/2007)	M 15/385 (11/10/2007)	M 15/410 (11/10/2007)
M 15/411 (11/10/2007)	M 15/412 (11/10/2007)	M 15/515 (11/10/2007)
M 15/595 (11/10/2007)	M 15/630 (11/10/2007)	M 15/636 (11/10/2007)
M 15/645 (11/10/2007)	M 15/646 (11/10/2007)	M 15/660 (11/10/2007)
M 15/662 (11/10/2007)	M 15/675 (06/07/2009)	M 15/711 (11/10/2007)
M 15/761 (11/10/2007)	M 15/770 (09/01/2008)	M 15/781 (24/06/2009)
M 15/791 (11/10/2007)	M 15/827 (24/06/2009)	M 15/852 (24/06/2009)
M 15/857 (24/06/2009)	M 15/871 (11/10/2007)	M 15/877 (24/06/2009)
M 15/958 (11/10/2007)	M 15/966 (15/04/2010)	M 15/981 (24/06/2009)
M 15/1114 (11/10/2007)	M 15/1153 (21/11/2007)	M 15/1262 (15/04/2010)
M 15/1293 (11/10/2007)	M 15/1294 (11/10/2007)	M 15/1341 (05/11/2010)
M 15/1357 (05/11/2010)	M 15/1358 (05/11/2010)	M 15/1359 (05/11/2010)
M 15/1384 (11/10/2007)	M 15/1422 (11/10/2007)	M 15/1432 (18/04/2008)
M 15/1433 (11/10/2007)	M 15/1434 (11/10/2007)	M 15/1444 (15/04/2010)
M 15/1461 (15/04/2010)	M 15/1760 (11/10/2007)	M 15/1788 (09/08/2010)
M 15/1789 (04/05/2011)	M 15/1793 (15/04/2010)	P 15/5159 (28/10/2010)
P 15/5702 (19/07/2019)	P 15/5703 (19/07/2019)	P 15/5704 (19/07/2019)
P 15/5712 (23/02/2017)	P 15/5717 (13/02/2013)	P 15/5939 (26/07/2021)
P 15/5964 (23/02/2017)	P 15/5966 (23/02/2017)	P 15/5967 (23/02/2017)
P 15/5968 (23/02/2017)	P 15/5971 (23/02/2017)	P 15/5972 (23/02/2017)
P 15/6002 (19/09/2016)	P 15/6033 (23/02/2017)	P 15/6102 (21/10/2020)
P 15/6118 (18/10/2018)	P 15/6119 (18/10/2018)	P 15/6120 (18/10/2018)
P 15/6121 (18/10/2018)	P 15/6122 (18/10/2018)	P 15/6123 (18/10/2018)
P 15/6176 (21/10/2020)	P 15/6177 (21/10/2020)	P 15/6178 (21/10/2020)
P 15/6251 (17/04/2019)	P 15/6252 (17/04/2019)	P 15/6253 (17/04/2019)
P 15/6254 (17/04/2019)	P 15/6256 (17/04/2019)	P 15/6257 (17/04/2019)
P 15/6335 (08/12/2021)	P 15/6541 (08/12/2021)	P 15/6598 (26/04/2022)
P 15/6605 (01/10/2021)	P 15/6633 (06/07/2023)	P 15/6639 (06/07/2023)
P 15/6667 (11/01/2023)	P 15/6670 (14/06/2022)	P 15/6777 (21/09/2023)
P 15/6785 (14/05/2024)	P 15/6868 (30/10/2024)	

End of Search

MINING TENEMENT REGISTER SEARCH

MINING LEASE 15/645

This Register Search issued pursuant to Section 103F(4) of the Mining Act, 1978 at: **13:20:16 28/11/2024**

Barnett
Jared Barnett
A/Executive Director
Resource Tenure
Department of Energy, Mines, Industry
Regulation and Safety

Tenement Summary

Identifier : M 15/645	District : COOLGARDIE
Current Area : 721.60000 HA	Status : Live
Mark Out : 27/08/1992 13:25:00	Received : 27/08/1992 13:40:00
Term Granted : 21 Years (Renewed)	Lodging Office : COOLGARDIE
Commence : 26/03/1993	Expiry : 25/03/2035
Purpose :	Death :

Rent Status

Due for Year End 25/03/2025 :
Previous Amount Outstanding : \$0.00
Current Due : \$0.00
Rent for Year End 25/03/2026 : \$20,649.20

Expenditure Status

Expended Year End 25/03/2024 : EXPENDED IN FULL
Current Year (25/03/2025) Commitment : \$72,200.00

OWNERSHIP DETAILS

Current Holders

Name and Address	Shares
FOCUS MINERALS LTD	90
TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888	
FOCUS OPERATIONS PTY LTD	10
TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888	
Total Shares:	100

Holder Changes

Dealing	Status Date	From (Shares)	To (Shares)
Transfer 927H/056	Registered 06/02/2006 08:30:00	GOLDFAN LTD (100)	FOCUS MINERALS LTD (90)
Transfer 1020H/056	Registered 06/02/2006 08:30:00	GOLDFAN LTD (10)	MATADOR MINING PTY LTD (10)
Transfer 289391	Registered 28/04/2008 15:55:00	MATADOR MINING PTY LTD (10)	REDEMPTION MANAGEMENT PTY LTD (10)
A to A (Name) 299484	Recorded 05/09/2008 11:00:00	REDEMPTION MANAGEMENT PTY LTD (10)	FOCUS OPERATIONS PTY LTD (10)

Applicants on Receival

Name and Address	Shares
GOLDFAN LTD LEVEL 3, 50 COLIN ST, WEST PERTH, WA, 6005	100
Total Shares:	100

DESCRIPTION DETAILS**Description****Block Type :****Effective From :****Locality :**

Three Mile Hill

Datum :

Datum is located at the north west corner of surveyed P 15/2939

Boundary :

Thence 707.78 metres bearing 182 degrees 07 minutes along surveyed boundary of P 15/2939 and L 15/95

Thence 106.20 metres bearing 223 degrees 01 minutes along surveyed boundary of L 15/16 to the surveyed northern boundary of M 15/574

Thence traversing all of the western boundary of M 15/574 and including the surveyed boundary of P 15/2935 to the point that intersects the surveyed southern boundary of M 15/121

Thence along the surveyed southern boundary of M 15/121 to the point that intersects with the surveyed boundary of P 15/2755

Thence along the western surveyed boundaries of P 15/2755, late M 15/318, P 15/2756 and P 15/2958

Thence along the surveyed eastern boundary of P 15/2958

Thence along the surveyed southern boundary of P 15/2958 to the point where it meets the surveyed southern boundary of M 15/574

Thence traversing all of those legs on the southern, eastern and northern boundaries of M 15/574 back to the point where they intersect the surveyed eastern boundary of L 15/95

Thence 285.65 metres bearing 285 degrees 02 minutes along that portion of the surveyed eastern boundary of L 15/95

Thence 245.72 metres bearing 002 degrees 09 minutes along a further portion of the surveyed eastern boundary of L 15/95

Thence 243.28 metres bearing 093 degrees 52 minutes along surveyed southern boundary of P 15/2939

Thence 135.29 metres bearing 003 degrees 28 minutes along surveyed eastern boundary of P 15/2939

Thence 82.12 metres bearing 347 degrees 16 minutes along surveyed eastern boundary of P 15/2939

Thence 25.39 metres bearing 067 degrees 38 minutes along surveyed eastern boundary of P 15/2939

Thence 172.58 metres bearing 003 degrees 26 minutes along surveyed eastern boundary of P 15/2939

Thence 304.82 metres bearing 279 degrees 22 minutes along the surveyed northern boundary of P 15/2939

Back to datum

Ground applied for includes but not limited to M 15/574, L 15/116 to be conditionally surrendered, L 15/95 to be conditionally partially surrendered and P 15/2755, 15/2756, 15/2935, 15/2958, 15/2939, 15/3024 and 15/3120 pursuant to Section 49 of the Mining Act

Area :	Type	Dealing No	Start Date	Area
	Surveyed		30/11/2004	721.60000 HA
	Granted		26/03/1993	724.71050 HA
	Applied For		27/08/1992	724.71050 HA

RELATIONSHIPS

Relationships

Relationship	Dealing No	Dealing Status	Tenement ID	Tenement Status
Section 49			P 15/2755	Dead
Converted			M 15/574	Dead
Converted			L 15/116	Live
Section 49			P 15/3120	Dead
Section 49			P 15/3024	Dead
Section 49			P 15/2958	Dead
Section 49			P 15/2939	Dead
Section 49			P 15/2935	Dead
Section 49			P 15/2756	Dead
Conditional Surrender	Surrender - Conditional CO9/923	Made absolute	L 15/95	Live

State Agreement Conversions

Applicable Legislation	Effective Start	Effective End
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SURVEY DETAILS

Survey

Surveyed Area	Surveyed Date	Surveyor's Name	Field Book	Instruction Date	Project
721.60000 HA	30/11/2004	HOWES, JG	108, 109	01/11/2004	12009

Standard Plan	Diagram
TENGRAPH	31069 (2743)

GENERAL DETAILS

General

Objection Closing Date : 26/09/1992

Application Fee : \$165.40

File Reference : 309/2003

Survey Fee :

Receipt Number : 2496

Special Indicator

Special Indicator	Start	End
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SHIRE DETAILS

Shire

Shire	Shire No	Start	End	Area
COOLGARDIE SHIRE	1960	27/08/1992		721.60000 HA

NATIVE TITLE DETAILS

Native Title Referrals

DISCLAIMER: Complete Native Title Information is not available for this Tenement/Amalgamation/Ext of Term

Date Referred	Referral Type	Procedure	Current Status
	Tenement Application		

GRANT DETAILS

Recommendation

Recommended for : Grant 06/10/1992

Grant

Granted : 25/03/1993	Holder Notified : 26/03/1993	Licence/Lease issued :
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Term

Term : 21 Years (Renewed)	From : 26/03/1993	To : 25/03/2035
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ENDORSEMENTS/CONDITIONS DETAILS

Endorsements and Conditions

#	ENDORSEMENTS	Start Date	End Date
1	The Lessee's attention is drawn to the Minister responsible for the Mining Act 1978 requirement that the holder of this Lease lodge security in the form of an Unconditional Performance Bond for due compliance with environmental conditions in the sum of: <ul style="list-style-type: none">\$1,204,000	19/09/2012	29/07/2013
	The Lessee's attention is drawn to the Minister responsible for the Mining Act 1978 requirement that the holder of this Lease lodge security in the form of an Unconditional Performance Bond for due compliance with environmental conditions in the sum of: <ul style="list-style-type: none">\$847,000	15/09/2011	18/09/2012
#	CONDITIONS	Start Date	End Date
1	Survey.	26/03/1993	
2	Compliance with the provisions of the Aboriginal Heritage Act, 1972 to ensure that no action is taken which is likely to interfere with or damage any Aboriginal site.	26/03/1993	

#	CONDITIONS	Start Date	End Date
3	All surface holes drilled for the purpose of exploration are to be capped, filled or otherwise made safe after completion.	26/03/1993	
4	All costeans and other disturbances to the surface of the land made as a result of exploration, including drill pads, grid lines and access tracks, being backfilled and rehabilitated to the satisfaction of the Environmental Officer, Department of Mines and Petroleum (DMP). Backfilling and rehabilitation being required no later than 6 months after excavation unless otherwise approved in writing by the Environmental Officer, DMP.	21/11/2016	
	All costeans and other disturbances to the surface of the land made as a result of exploration, including drill pads, grid lines and access tracks, being backfilled and rehabilitated to the satisfaction of the Environmental Officer, Department of Industry and Resources (DoIR). Backfilling and rehabilitation being required no later than 6 months after excavation unless otherwise approved in writing by the Environmental Officer, DoIR.	12/08/2005	20/11/2016
	All costeans and other disturbances to the surface of the land made as a result of exploration, including drill pads, grid lines and access tracks, being backfilled and rehabilitated to the satisfaction of the District Mining Engineer. Backfilling and rehabilitation being required no later than 6 months after excavation unless otherwise approved in writing by the District Mining Engineer.	26/03/1993	11/08/2005
5	All waste materials, rubbish, plastic sample bags, abandoned equipment and temporary buildings being removed from the mining tenement prior to or at the termination of exploration programme.	26/03/1993	
6	Unless the written approval of the Environmental Officer, DMP is first obtained, the use of scrapers, graders, bulldozers, backhoes or other mechanised equipment for surface disturbance or the excavation of costeans is prohibited. Following approval, all topsoil being removed ahead of mining operations and separately stockpiled for replacement after backfilling and/or completion of operations.	21/11/2016	
	Unless the written approval of the Environmental Officer, DoIR is first obtained, the use of scrapers, graders, bulldozers, backhoes or other mechanised equipment for surface disturbance or the excavation of costeans is prohibited. Following approval, all topsoil being removed ahead of mining operations and separately stockpiled for replacement after backfilling and/or completion of operations.	12/08/2005	20/11/2016
	Unless the written approval of the District Mining Engineer, Department of Mines, is first obtained, the use of scrapers, graders, bulldozers, backhoes or other mechanised equipment for surface disturbance or the excavation of costeans is prohibited. Following approval, all topsoil being removed ahead of mining operations and separately stockpiled for replacement after backfilling and/or completion of operations.	26/03/1993	11/08/2005
7	No developmental or productive mining or construction activity being commenced until the tenement holder has submitted a plan of the proposed operations and measures to safeguard the environment to the Director, Environment, DMP for assessment, and until his written approval has been obtained.	21/11/2016	
	No developmental or productive mining or construction activity being commenced until the tenement holder has submitted a plan of the proposed operations and measures to safeguard the environment to the Director, Environment, DoIR for assessment; and until his written approval has been obtained.	12/08/2005	20/11/2016
	No developmental or productive mining or construction activity being commenced until the tenement holder has submitted a plan of the proposed operations and measures to safeguard the environment to the State Mining Engineer for assessment; and until his written approval has been obtained.	26/03/1993	11/08/2005
8	The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled: <ul style="list-style-type: none"> "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; "letter" dated 9 April 1992 with associated information; "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- 	05/03/2024	

#	CONDITIONS	Start Date	End Date
	<p>increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95;</p> <ul style="list-style-type: none"> • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. • Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 		

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick (Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301; • "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; • "Letter of Intent Mining Lease M15/645" (Reg ID 21933) dated 18 May 2009 signed by Peter Williams and retained on Department of Mines and Petroleum File No. E0093/200401; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645 and 15/1793" dated 13 May 2010, signed by Chuck McCormick (Reg ID 26997) and retained on Department of Mines and Petroleum File No. T0309/200302; • "Letter of Intent Mining Lease 15/645" (Reg ID 24460) dated 3 November 2009 signed by Clint Baker - Mining Manager and retained on Department of Mines and Petroleum File No. E2632/200304; • "Letter of Intent - re-route potable water line on Mining Leases 15/645, 15/121, 15/152 and 15/646 (Reg ID 26676) dated 15 April 2010 signed by Peter Williams - Registered Manager and retained on Department of Mines and Petroleum File No. E2632/200305 • (Reg ID: 31391) "Tailings Storage Facility Lift M15/645 and M15/1432 June 2011" dated 24 June 2011 signed by Barend Knoetze - Residential Manager, and retained on Department of Mines and Petroleum file No. EARS-MP-31391. • (Reg ID:31631) "Extension of Coreyard - Three Mile Hill" dated 11 July 2011 signed by Fred Heinderich, and retained on Department of Mines and Petroleum file No. EARS-MP-31631. • Letter "RE: Amendment Letter for TSF lift Mining Proposal" dated 12 August 2011 signed by Barend Knoetze - Registered Manager; • (Reg ID 35330) "Greenfields Open Pit Cut Back Mining Proposal - Focus Minerals Ltd" dated 4 May 2012 signed by Barend Knoetze and retained on Department of Mines and Petroleum File No. EARS-MP-35330; • (Reg I 36009) "Mining Proposal Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 18 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; • (Reg ID 36009) "Preliminary Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 20 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; • (Reg ID 36009) "Re: ID 36009 Further Information Required for Mining Proposal and Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 1 August 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; • (Reg ID 36009) "Re:ID 36009 Further Information Required for Mining Proposal and Mine Closure Plan Gunga West Open Pit project M15/26, M15/1272 June 2012" dated 10 September 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; • (MP Reg ID 43515) "Re: Addition of a pipeline from TMHWP05 to CNX pit" dated 2 October 2013 signed by Jonathon Barker - Environmental Co-ordinator and retained on Department of Mines and Petroleum File No. EARS-MP-43515; • (Reg ID 47627) "Three Mile Hill Tailings Storage Facility (M15/645 and M15/1432) Mining Proposal Addendum - to Registration ID 31391 Revision 1 - Amendment to Infrastructure Designs" dated 7 April 2014 signed by Andrew Paterson - General Manager - Exploration and Resources Development and retained on Department of Mines and Petroleum File No. EARS-MP-47627 as Doc ID 2858269; • (MP Reg ID 47894) "Greenfields Tailings Line Mining Proposal Version 1 23 April 2014" dated 23 April 2014 signed by Chris Burns and retained on Department of Mines and Petroleum File No. EARS-MP-47894 as Doc ID 2891186 		

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> • (MP Reg ID:60434) "Revised Mining Proposal for the Gunga Mining Project Revision 4" dated 08 November 2016 signed by John Law, and retained on Department of Mines and Petroleum file no. EARS-MPMCP-60434 as Doc ID 4632402. • (MCP Reg ID:60434) "Revised Mine Closure Plan for the Gunga Mining Project Version 4" dated 26 October 2016 signed by Ron Ellis, and retained on Department of Mines and Petroleum file no. EARS-MPMCP-60434 as Doc ID 4632402; • (MP Reg ID 64374) "Amended Mining Proposal for the Gunga Mining Project Revision 2" dated 17 March 2017 signed by Mark Cronin and retained on Department of Mines and Petroleum File No. EARS-MP-64374 as Doc ID 4897531; • (Reg ID 73579) "Coolgardie Gold Project Mine Closure Plan" dated 20 April 2018 signed by Gemma Blick, and retained on Department of Mines, Industry Regulation and Safety File No. EARS-MCP-73579 as Doc ID 5705163; • (MPMCP Reg ID 112487) "Coolgardie Gold Feasibility Water Bores" dated 5 July 2022 and retained on Department of Mines, Industry Regulation and Safety File No. EARS-MP-112487 as Doc ID 9362019 • (MPMCP Reg ID 112335) "Mining Proposal for Small Mining Operations: TMH TSF Stage 2 Foundation Platform - Interim Works dated 29 June 2022 and retained on Department of Mines, Industry Regulation and Safety File No. EARS-MP-112335 as Doc ID 9346674; • (MPMCP Reg ID 116900) "Bayley's and Lindsay's dewatering / water pipeline Infrastructure Mining Proposal" dated 14 February 2023 and retained on Department of Mines, Industry Regulation and Safety File No. EARS-MP-116900 as Doc ID 9954846; • (MPMCP Reg ID 120953) "Roger Springs Borefield Infrastructure" dated 31 October 2023 and retained on Department of Energy, Mines, Industry Regulation and Safety File No. EARS-MP-120953 as Object ID A68055480; • (MPMCP Reg ID 121063) "CNX Material Stockpiles" dated 14 November 023 and retained on Department of Energy, Mines, Industry Regulation and Safety File No. EARS-MP-121063 as Object ID A69908638. <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail.</p>		

The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled: 06/02/2024 04/03/2024

- "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989;
- "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990;
- "letter" dated 9 April 1992 with associated information;
- "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993;
- "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991);
- "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994;
- "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95;
- "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and
- "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00.
- Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999;
- Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited;
- "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301.

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. • Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick (Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301; • "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; 		

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Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:

The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled: 05/09/2022 05/04/2023

- "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989;
- "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990;
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	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; "letter" dated 9 April 1992 with associated information; "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00. Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed 	27/07/2022	04/09/2022

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	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. 	21/07/2017	08/08/2018

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	<ul style="list-style-type: none"> • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. • Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick (Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301; • "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; 		

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	<ul style="list-style-type: none"> "Letter of Intent Mining Lease M15/645" (Reg ID 21933) dated 18 May 2009 signed by Peter Williams and retained on Department of Mines and Petroleum File No. E0093/200401; Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645 and 15/1793" dated 13 May 2010, signed by Chuck McCormick (Reg ID 26997) and retained on Department of Mines and Petroleum File No. T0309/200302; "Letter of Intent Mining Lease 15/645" (Reg ID 24460) dated 3 November 2009 signed by Clint Baker - Mining Manager and retained on Department of Mines and Petroleum File No. E2632/200304; "Letter of Intent - re-route potable water line on Mining Leases 15/645, 15/121, 15/152 and 15/646 (Reg ID 26676) dated 15 April 2010 signed by Peter Williams - Registered Manager and retained on Department of Mines and Petroleum File No. E2632/200305 (Reg ID: 31391) "Tailings Storage Facility Lift M15/645 and M15/1432 June 2011" dated 24 June 2011 signed by Barend Knoetze - Residential Manager, and retained on Department of Mines and Petroleum file No. EARS-MP-31391. (Reg ID:31631) "Extension of Coreyard - Three Mile Hill" dated 11 July 2011 signed by Fred Heinderich, and retained on Department of Mines and Petroleum file No. EARS-MP-31631. Letter "RE: Amendment Letter for TSF lift Mining Proposal" dated 12 August 2011 signed by Barend Knoetze - Registered Manager; (Reg ID 35330) "Greenfields Open Pit Cut Back Mining Proposal - Focus Minerals Ltd" dated 4 May 2012 signed by Barend Knoetze and retained on Department of Mines and Petroleum File No. EARS-MP-35330; (Reg I 36009) "Mining Proposal Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 18 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 36009) "Preliminary Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 20 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 36009) "Re: ID 36009 Further Information Required for Mining Proposal and Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 1 August 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 36009) "Re:ID 36009 Further Information Required for Mining Proposal and Mine Closure Plan Gunga West Open Pit project M15/26, M15/1272 June 2012" dated 10 September 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 37572) "Coolgardie Gold Project Mine Closure Plan - Document ID: FMLCOO Version 1 - Refision 2 - January 2013" dated 23 January 2013 signed by Barend Knoetze and retained on Department of Mines and Petroleum File No. EARS-MCP-37572; (MP Reg ID 43515) "Re: Addition of a pipeline from TMHWP05 to CNX pit" dated 2 October 2013 signed by Jonathon Barker - Environmental Co-ordinator and retained on Department of Mines and Petroleum File No. EARS-MP-43515; (Reg ID 47627) "Three Mile Hill Tailings Storage Facility (M15/645 and M15/1432) Mining Proposal Addendum - to Registration ID 31391 Revision 1 - Amendment to Infrastructure Designs" dated 7 April 2014 signed by Andrew Paterson - General Manager - Exploration and Resources Development and retained on Department of Mines and Petroleum File No. EARS-MP-47627 as Doc ID 2858269; (MP Reg ID 47894) "Greenfields Tailings Line Mining Proposal Version 1 23 April 2014" dated 23 April 2014 signed by Chris Burns and retained on Department of Mines and Petroleum File No. EARS-MP-47894 as Doc ID 2891186 (MP Reg ID:60434) "Revised Mining Proposal for the Gunga Mining Project Revision 4" dated 08 November 2016 signed by John Law, and retained on Department of Mines and Petroleum file no. EARS-MPMCP-60434 as Doc ID 4632402. (MCP Reg ID:60434) "Revised Mine Closure Plan for the Gunga Mining Project Version 4" dated 26 October 2016 signed by Ron Ellis, and retained on Department of Mines and Petroleum file no. EARS-MPMCP-60434 as Doc ID 4632402; (MP Reg ID 64374) "Amended Mining Proposal for the Gunga Mining Project Revision 2" dated 17 March 2017 signed by Mark Cronin and retained on Department of Mines and Petroleum File No. EARS-MP-64374 as Doc ID 4897531; (Reg ID 58145) "Coolgardie Gold Operations Three Mile Hill Tailings Storage Facility Mine Closure Plan November 2015" dated 11 November 2015 signed by Gemma 		

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	<p>Blick - Senior Environmental Adviser and retained on Department of Mines and Petroleum File No. EARS-MCP-58145 as Doc ID 3987244;</p> <ul style="list-style-type: none"> (Reg ID 58148) "Coolgardie Gold Project Mine Closure Plan, Document ID FMLCOO Version 1 Revision 4 November 2015" dated 9 November 2015 signed by Michael Chen - Senior Environmental Adviser and retained on Department of Mines and Petroleum File No. EARS-MCP-58148 as Doc ID 3987736 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; "letter" dated 9 April 1992 with associated information; "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00. Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. 		
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Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:

The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:	11/04/2017	02/05/2017
<ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and 		

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	<ul style="list-style-type: none"> • (MP Reg ID:60434) "Revised Mining Proposal for the Gunga Mining Project Revision 4" dated 08 November 2016 signed by John Law, and retained on Department of Mines and Petroleum file no. EARS-MPMCP-60434 as Doc ID 4632402; • (MCP Reg ID:60434) "Revised Mine Closure Plan for the Gunga Mining Project Version 4" dated 26 October 2016 signed by Ron Ellis, and retained on Department of Mines and Petroleum file no. EARS-MPMCP-60434 as Doc ID 4632402; • (MP Reg ID 64374) "Amended Mining Proposal for the Gunga Mining Project Revision 2" dated 17 March 2017 signed by Mark Cronin and retained on Department of Mines and Petroleum File No. EARS-MP-64374 as Doc ID 4897531 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. 		
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	<ul style="list-style-type: none"> "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; "Letter of Intent Mining Lease M15/645" (Reg ID 21933) dated 18 May 2009 signed by Peter Williams and retained on Department of Mines and Petroleum File No. E0093/200401; Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645 and 15/1793" dated 13 May 2010, signed by Chuck McCormick (Reg ID 26997) and retained on Department of Mines and Petroleum File No. T0309/200302; "Letter of Intent Mining Lease 15/645" (Reg ID 24460) dated 3 November 2009 signed by Clint Baker - Mining Manager and retained on Department of Mines and Petroleum File No. E2632/200304; "Letter of Intent - re-route potable water line on Mining Leases 15/645, 15/121, 15/152 and 15/646 (Reg ID 26676) dated 15 April 2010 signed by Peter Williams - Registered Manager and retained on Department of Mines and Petroleum File No. E2632/200305 (Reg ID: 31391) "Tailings Storage Facility Lift M15/645 and M15/1432 June 2011" dated 24 June 2011 signed by Barend Knoetze - Residential Manager, and retained on Department of Mines and Petroleum file No. EARS-MP-31391. (Reg ID:31631) "Extension of Coreyard - Three Mile Hill" dated 11 July 2011 signed by Fred Heinderich, and retained on Department of Mines and Petroleum file No. EARS-MP-31631. Letter "RE: Amendment Letter for TSF lift Mining Proposal" dated 12 August 2011 signed by Barend Knoetze - Registered Manager; (Reg ID 35330) "Greenfields Open Pit Cut Back Mining Proposal - Focus Minerals Ltd" dated 4 May 2012 signed by Barend Knoetze and retained on Department of Mines and Petroleum File No. EARS-MP-35330; (Reg I 36009) "Mining Proposal Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 18 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 36009) "Preliminary Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 20 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 36009) "Re: ID 36009 Further Information Required for Mining Proposal and Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 1 August 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 36009) "Re:ID 36009 Further Information Required for Mining Proposal and Mine Closure Plan Gunga West Open Pit project M15/26, M15/1272 June 2012" dated 10 September 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 37572) "Coolgardie Gold Project Mine Closure Plan - Document ID: FMLCOO Version 1 - Refision 2 - January 2013" dated 23 January 2013 signed by Barend Knoetze and retained on Department of Mines and Petroleum File No. EARS-MCP-37572; (MP Reg ID 43515) "Re: Addition of a pipeline from TMHWP05 to CNX pit" dated 2 October 2013 signed by Jonathon Barker - Environmental Co-ordinator and retained on Department of Mines and Petroleum File No. EARS-MP-43515; (Reg ID 47627) "Three Mile Hill Tailings Storage Facility (M15/645 and M15/1432) Mining Proposal Addendum - to Registration ID 31391 Revision 1 - Amendment to Infrastructure Designs" dated 7 April 2014 signed by Andrew Paterson - General Manager - Exploration and Resources Development and retained on Department of Mines and Petroleum File No. EARS-MP-47627 as Doc ID 2858269; (MP Reg ID 47894) "Greenfields Tailings Line Mining Proposal Version 1 23 April 2014" dated 23 April 2014 signed by Chris Burns and retained on Department of Mines and Petroleum File No. EARS-MP-47894 as Doc ID 2891186 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p>		
		18/06/2014	31/07/2014

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	<ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck 		

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	McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701		
	<ul style="list-style-type: none"> • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601; • Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick (Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301; • "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; • "Letter of Intent Mining Lease M15/645" (Reg ID 21933) dated 18 May 2009 signed by Peter Williams and retained on Department of Mines and Petroleum File No. E0093/200401; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645 and 15/1793" dated 13 May 2010, signed by Chuck McCormick (Reg ID 26997) and retained on Department of Mines and Petroleum File No. T0309/200302; • "Letter of Intent Mining Lease 15/645" (Reg ID 24460) dated 3 November 2009 signed by Clint Baker - Mining Manager and retained on Department of Mines and Petroleum File No. E2632/200304; • "Letter of Intent - re-route potable water line on Mining Leases 15/645, 15/121, 15/152 and 15/646 (Reg ID 26676) dated 15 April 2010 signed by Peter Williams - Registered Manager and retained on Department of Mines and Petroleum File No. E2632/200305 • (Reg ID: 31391) "Tailings Storage Facility Lift M15/645 and M15/1432 June 2011" dated 24 June 2011 signed by Barend Knoetze - Residential Manager, and retained on Department of Mines and Petroleum file No. EARS-MP-31391. • (Reg ID:31631) "Extension of Coreyard - Three Mile Hill" dated 11 July 2011 signed by Fred Heinderich, and retained on Department of Mines and Petroleum file No. EARS-MP-31631. • Letter "RE: Amendment Letter for TSF lift Mining Proposal" dated 12 August 2011 signed by Barend Knoetze - Registered Manager; • (Reg ID 35330) "Greenfields Open Pit Cut Back Mining Proposal - Focus Minerals Ltd" dated 4 May 2012 signed by Barend Knoetze and retained on Department of Mines and Petroleum File No. EARS-MP-35330; • (Reg I 36009) "Mining Proposal Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 18 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; • (Reg ID 36009) "Preliminary Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 20 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; • (Reg ID 36009) "Re: ID 36009 Further Information Required for Mining Proposal and Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 1 August 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; 		

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Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:

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- "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993;
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- "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994;
- "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95;
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- Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999;
- Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited;
- "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by

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	Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301.		
	<ul style="list-style-type: none"> • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. • Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick (Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301; • "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; 		

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	<ul style="list-style-type: none"> "Letter of Intent Mining Lease M15/645" (Reg ID 21933) dated 18 May 2009 signed by Peter Williams and retained on Department of Mines and Petroleum File No. E0093/200401; Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645 and 15/1793" dated 13 May 2010, signed by Chuck McCormick (Reg ID 26997) and retained on Department of Mines and Petroleum File No. T0309/200302; "Letter of Intent Mining Lease 15/645" (Reg ID 24460) dated 3 November 2009 signed by Clint Baker - Mining Manager and retained on Department of Mines and Petroleum File No. E2632/200304; "Letter of Intent - re-route potable water line on Mining Leases 15/645, 15/121, 15/152 and 15/646 (Reg ID 26676) dated 15 April 2010 signed by Peter Williams - Registered Manager and retained on Department of Mines and Petroleum File No. E2632/200305 (Reg ID: 31391) "Tailings Storage Facility Lift M15/645 and M15/1432 June 2011" dated 24 June 2011 signed by Barend Knoetze - Residential Manager, and retained on Department of Mines and Petroleum file No. EARS-MP-31391. (Reg ID:31631) "Extension of Coreyard - Three Mile Hill" dated 11 July 2011 signed by Fred Heinderich, and retained on Department of Mines and Petroleum file No. EARS-MP-31631. Letter "RE: Amendment Letter for TSF lift Mining Proposal" dated 12 August 2011 signed by Barend Knoetze - Registered Manager; (Reg ID 35330) "Greenfields Open Pit Cut Back Mining Proposal - Focus Minerals Ltd" dated 4 May 2012 signed by Barend Knoetze and retained on Department of Mines and Petroleum File No. EARS-MP-35330; (Reg I 36009) "Mining Proposal Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 18 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 36009) "Preliminary Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 20 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 36009) "Re: ID 36009 Further Information Required for Mining Proposal and Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 1 August 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 36009) "Re:ID 36009 Further Information Required for Mining Proposal and Mine Closure Plan Gunga West Open Pit project M15/26, M15/1272 June 2012" dated 10 September 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; (Reg ID 37572) "Coolgardie Gold Project Mine Closure Plan - Document ID: FMLCOO Version 1 - Refision 2 - January 2013" dated 23 January 2013 signed by Barend Knoetze and retained on Department of Mines and Petroleum File No. EARS-MCP-37572 		

Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:

The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:	15/04/2013	03/06/2013
<ul style="list-style-type: none"> "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; "letter" dated 9 April 1992 with associated information; "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; 		

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	<ul style="list-style-type: none"> "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson 		

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	<p>and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301</p> <ul style="list-style-type: none"> • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick (Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301; • "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; • "Letter of Intent Mining Lease M15/645" (Reg ID 21933) dated 18 May 2009 signed by Peter Williams and retained on Department of Mines and Petroleum File No. E0093/200401; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645 and 15/1793" dated 13 May 2010, signed by Chuck McCormick (Reg ID 26997) and retained on Department of Mines and Petroleum File No. T0309/200302; • "Letter of Intent Mining Lease 15/645" (Reg ID 24460) dated 3 November 2009 signed by Clint Baker - Mining Manager and retained on Department of Mines and Petroleum File No. E2632/200304; • "Letter of Intent - re-route potable water line on Mining Leases 15/645, 15/121, 15/152 and 15/646 (Reg ID 26676) dated 15 April 2010 signed by Peter Williams - Registered Manager and retained on Department of Mines and Petroleum File No. E2632/200305 • (Reg ID: 31391) "Tailings Storage Facility Lift M15/645 and M15/1432 June 2011" dated 24 June 2011 signed by Barend Knoetze - Residential Manager, and retained on Department of Mines and Petroleum file No. EARS-MP-31391. • (Reg ID:31631) "Extension of Coreyard - Three Mile Hill" dated 11 July 2011 signed by Fred Heinderich, and retained on Department of Mines and Petroleum file No. EARS-MP-31631. • Letter "RE: Amendment Letter for TSF lift Mining Proposal" dated 12 August 2011 signed by Barend Knoetze - Registered Manager; • (Reg ID 35330) "Greenfields Open Pit Cut Back Mining Proposal - Focus Minerals Ltd" dated 4 May 2012 signed by Barend Knoetze and retained on Department of Mines and Petroleum File No. EARS-MP-35330; • (Reg I 36009) "Mining Proposal Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 18 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; • (Reg ID 36009) "Preliminary Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 20 June 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; • (Reg ID 36009) "Re: ID 36009 Further Information Required for Mining Proposal and Mine Closure Plan Gunga West Open Pit Project M15/26, M15/1272 June 2012" dated 1 August 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009; • (Reg ID 36009) "Re:ID 36009 Further Information Required for Mining Proposal and Mine Closure Plan Gunga West Open Pit project M15/26, M15/1272 June 2012" dated 10 September 2012 signed by Noel Wemyss and retained on Department of Mines and Petroleum File No. EARS-MP-36009 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; 		
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	<ul style="list-style-type: none"> • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. • Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson 		

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	<p>and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301</p> <ul style="list-style-type: none"> • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick (Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301; • "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; • "Letter of Intent Mining Lease M15/645" (Reg ID 21933) dated 18 May 2009 signed by Peter Williams and retained on Department of Mines and Petroleum File No. E0093/200401; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645 and 15/1793" dated 13 May 2010, signed by Chuck McCormick (Reg ID 26997) and retained on Department of Mines and Petroleum File No. T0309/200302; • "Letter of Intent Mining Lease 15/645" (Reg ID 24460) dated 3 November 2009 signed by Clint Baker - Mining Manager and retained on Department of Mines and Petroleum File No. E2632/200304; • "Letter of Intent - re-route potable water line on Mining Leases 15/645, 15/121, 15/152 and 15/646 (Reg ID 26676) dated 15 April 2010 signed by Peter Williams - Registered Manager and retained on Department of Mines and Petroleum File No. E2632/200305 • (Reg ID: 31391) "Tailings Storage Facility Lift M15/645 and M15/1432 June 2011" dated 24 June 2011 signed by Barend Knoetze - Residential Manager, and retained on Department of Mines and Petroleum file No. EARS-MP-31391. • (Reg ID:31631) "Extension of Coreyard - Three Mile Hill" dated 11 July 2011 signed by Fred Heinderich, and retained on Department of Mines and Petroleum file No. EARS-MP-31631. • Letter "RE: Amendment Letter for TSF lift Mining Proposal" dated 12 August 2011 signed by Barend Knoetze - Registered Manager. 		

Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:

The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled: 11/01/2011 14/09/2011

- "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989;
- "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990;
- "letter" dated 9 April 1992 with associated information;
- "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993;
- "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991);
- "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994;
- "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95;
- "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and
- "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00.

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. • Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick 		

#	CONDITIONS	Start Date	End Date
	<p>(Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301;</p> <ul style="list-style-type: none"> "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; "Letter of Intent Mining Lease M15/645" (Reg ID 21933) dated 18 May 2009 signed by Peter Williams and retained on Department of Mines and Petroleum File No. E0093/200401; Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645 and 15/1793" dated 13 May 2010, signed by Chuck McCormick (Reg ID 26997) and retained on Department of Mines and Petroleum File No. T0309/200302; "Letter of Intent Mining Lease 15/645" (Reg ID 24460) dated 3 November 2009 signed by Clint Baker - Mining Manager and retained on Department of Mines and Petroleum File No. E2632/200304; "Letter of Intent - re-route potable water line on Mining Leases 15/645, 15/121, 15/152 and 15/646 (Reg ID 26676) dated 15 April 2010 signed by Peter Williams - Registered Manager and retained on Department of Mines and Petroleum File No. E2632/200305 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p>		
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; "letter" dated 9 April 1992 with associated information; "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00. Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck 	08/07/2010	10/01/2011

#	CONDITIONS	Start Date	End Date
	<p>McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601.</p> <ul style="list-style-type: none"> "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301 Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick (Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301; "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; "Letter of Intent Mining Lease M15/645" (Reg ID 21933) dated 18 May 2009 signed by Peter Williams and retained on Department of Mines and Petroleum File No. E0093/200401; Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645 and 15/1793" dated 13 May 2010, signed by Chuck McCormick (Reg ID 26997) and retained on Department of Mines and Petroleum File No. T0309/200302; 		

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	<ul style="list-style-type: none"> "Letter of Intent Mining Lease 15/645" (Reg ID 24460) dated 3 November 2009 signed by Clint Baker - Mining Manager and retained on Department of Mines and Petroleum File No. E2632/200304 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; "letter" dated 9 April 1992 with associated information; "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; "Notice of Intent Lindsays Open Pit-Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation-increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00. Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John 		
		18/06/2010	07/07/2010

#	CONDITIONS	Start Date	End Date
	<p>Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601:</p> <ul style="list-style-type: none"> • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601: • Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick (Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301; • "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; • "Letter of Intent Mining Lease M15/645" (Reg ID 21933) dated 18 May 2009 signed by Peter Williams and retained on Department of Mines and Petroleum File No. E0093/200401; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645 and 15/1793" dated 13 May 2010, signed by Chuck McCormick (Reg ID 26997) and retained on Department of Mines and Petroleum File No. T0309/200302 		

Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:

The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:	06/10/2009	17/06/2010
<ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; 		

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	<p>and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301</p> <ul style="list-style-type: none"> • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick (Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301; • "Low Impact Mining Operations on M15/645" (Reg ID 21144) dated 30 January 2009 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. E0045/200701; • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting and Costean/trenching on Mining Leases 15/152, 15/491 and 15/645" dated 22 June 2009, signed by Chuck McCormick (Reg ID 22181) and retained on Department of Mines and Petroleum File No. T5181/200601; • "Letter of Intent Mining Lease M15/645" (Reg ID 21933) dated 18 May 2009 signed by Peter Williams and retained on Department of Mines and Petroleum File No. E0093/200401 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson 		
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson 	18/08/2009	05/10/2009

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	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. 	03/11/2008	22/04/2009

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	<ul style="list-style-type: none"> "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301 Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 18 July 2008 and signed by Chuck McCormick (Exp 19855) and retained on Department of Industry and Resources File No. T0309/200301 		
	Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:		
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; "letter" dated 9 April 1992 with associated information; "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. 	23/07/2008	02/11/2008

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. • Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 • Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 25 January 2008 and signed by John Williamson and Chuck McCormick (Exp 8298) and retained on Department of Industry and Resources File No. T0309/200301 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p>		

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	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 	21/02/2008	22/07/2008

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 Programme of Work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 7 December 2007 and signed by John Williamson and Chuck McCormick (Exp 8023) and retained on Department of Industry and Resources File No. T0309/200301 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; "letter" dated 9 April 1992 with associated information; "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00. Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson 		
	The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:	31/01/2008	20/02/2008

#	CONDITIONS	Start Date	End Date
	<p>and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601.</p> <ul style="list-style-type: none"> • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/152 and 15/645" dated 31 May 2007 and signed by John Williamson and Chuck McCormick (EXP 6844), and retained on Department of Industry and Resources file No. T5181/200601. • Programme of work titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 28 November 2007 and signed by John Williamson and Chuck McCormick (Exp 7974) and retained on Department of Industry and Resources File No. T0309/200301 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027/00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. 		
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	Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:		
	The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:	25/07/2007	29/07/2007
	<ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. 		

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	<ul style="list-style-type: none"> • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. • "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. • "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. • "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 • Programme of Work titled "Low Impact Mining Activities - Scraping and Detecting on Mining Lease 15/645" dated 8 June 2007 and signed by John Williamson and Chuck McCormick (EXP 6901), and retained on Department of Industry and Resources file no. T6903/200701 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- 		
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	<p>increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95;</p> <ul style="list-style-type: none"> "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. "Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/277, 15/636, 15/630 and 15/645" dated 22 March 2007 and signed by John Williamson and Chuck McCormick (MP 5668) and retained on Department of Industry and Resources File No. E0180/200601 <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; "letter" dated 9 April 1992 with associated information; "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; 		
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	<ul style="list-style-type: none"> "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. "Mining Proposal titled: "Low Impact Mining Notice of Intent - .Scrape and Detecting on Mining Lease 15/645" dated 18 September 2006 and signed by John Williamson and Chuck McCormick (MP 5488) and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Leases 15/121 & 15/645" dated 16 November 2006 and signed by John Williamson (MP 5539), and retained on Department of Industry and Resources file No. E0178/200601. "Mining Proposal titled: Low Impact Mining - Notice of Intent for Scraping and Detecting on Mining Lease 15/645" dated 19 September 2006 and signed by John Williamson (MP 5533), and retained on Department of Industry and Resources file No. E0380/200601. <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; "letter" dated 9 April 1992 with associated information; "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- 		
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	<p>2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301.</p> <ul style="list-style-type: none"> • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. • "Mining Proposal titled: Low Impact Mining Notice of Intent (Location 2) on Mining Leases 15/121, 15/299, 15/645 and 15/1103" (MP 5479) dated 31 August 2006 and signed by Chuck McCormick, and retained on Department of Industry and Resources file No. E0312/200601. <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; • "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. • Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 • Mining Proposal titled: "Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/645, 15/491 and 15/152" dated 24 July 2006 and signed by Chuck McCormick, Focus Minerals Ltd (MP 5410) and retained on Department of Industry and Resources File No. E0180/200601. <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; 		
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	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; 	27/06/2006	11/09/2006

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; "letter" dated 9 April 1992 with associated information; "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October 2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301. Mining Proposal titled: Low Impact Mining Activities - Scraping and Detecting on Mining Leases 15/150, 15/645, 15/646 and 15/630" dated 16 May 2006 and signed by Chuck McCormick and Mike Dufrensne (MP 5329) and retained on Department of Industry and Resources File No. E0174/200601 		

Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:

The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled: 10/02/2004 26/06/2006

- "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989;
- "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990;
- "letter" dated 9 April 1992 with associated information;
- "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993;
- "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991);
- "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994;
- "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95;
- "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and
- "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00.
- Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999;
- Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited;
- "Notice of Intent - Recommencement of Greenfields Open Pit Mining on Mining Leases 15/154 and 15/645 - Coolgardie Mining Company" dated September 2003 (NOI 4421) and "Additional Information for the NOI Greenfields Pit" dated 9 October

#	CONDITIONS	Start Date	End Date
	<p>2003, technically certified by Mr Keith Ernest Lindbeck and corporately endorsed by Mr Daniel Lougher and retained on Department of Industry and Resources File No. E2632/200301.</p> <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. • Notice of Intent to Dispose of Tailings into the Three Mile Hill Open Pit" dated May 1999; • Letter titled "Re: Notice of Intent - Three Mile Hill Inpit Tailings" dated 28 May 1999 and signed by Mr Vince Roberts - Tenement Manager Herald Resources Limited; <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; 	28/08/2002	09/02/2004
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; • "Goldfan Ltd, Three Mile Hill Project, Notice of Intent, Caledonia North Extended, Coolgardie Mineral Field" dated 11 September 1990; • "letter" dated 9 April 1992 with associated information; • "Notice of Intent Storage Extension Flotation and CIL Tailings Dam Three Mile Hill Project" dated December 1993; • "Correspondence titled "NOI for Tailings Dam Extension - Three Mile Hill" dated 15 February 1994 (including a Report on Investigation of tailings dam seepage Three Mile Hill Project GoldFan Ltd, dated June 1991); • "letter from Goldfan Ltd, detailing extension to the flotation and CIL dams" dated 16 March and 21 March 1994; • "Notice of Intent Lindsays Open Pit- Hillside Extension Stage IV and Lindsays Pit stage III Development and the Addendum to Notice of Intent Lindsays Pit Operation- increase in waste dump height and size" dated November 1995 and retained on Department of Minerals and Energy File No. 2128/95; • "Gold Mine to Coolgardie, Notice of Intent Lindsays Open Pit Extensions Stage V Development" dated May 1996 and retained on Department of Minerals and Energy File No. 2250/96; and • "Addendum-01 Notice of Intent for the Lady Ida Project Lady Ida Haul Road" dated April 2000, and retained in Department of Minerals and Energy File No. 4027//00. <p>Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; 	09/05/2000	27/08/2002
	<p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the documents titled:</p> <ul style="list-style-type: none"> • "Notice of Intent, Three Mile Hill Project Coolgardie Mineral Field, Goldfan Ltd, Volumes I and II" received 20 May 1989; 	10/10/1997	08/05/2000

Requested By: Georgia Donovan/Page 70 of 87

#	CONDITIONS	Start Date	End Date
9	The development and operation of the project being carried out in such a manner so as to create the minimum practicable disturbance to the existing vegetation and natural landform.	26/03/1993	
10	At the completion of operations, all buildings and structures being removed from site or demolished and buried to the satisfaction of the Executive Director, Environment Division, DMP:	15/09/2011	03/06/2022
	At the completion of operations, all buildings and structures being removed from site or demolished and buried to the satisfaction of the State Mining Engineer.	26/03/1993	14/09/2011
11	All rubbish and scrap being progressively disposed of in a suitable manner.	26/03/1993	
12	All topsoil and vegetation being removed prior to mining operations and being stockpiled appropriately for later respreading or immediately respread as rehabilitation progresses:	15/09/2011	03/06/2022
	All topsoil being removed ahead of all mining operations from sites such as pit areas, waste disposal areas, ore stockpile areas, pipeline, haul roads and new access roads and being stockpiled for later respreading or immediately respread as rehabilitation progresses:	26/03/1993	14/09/2011
13	At the completion of operations, or progressively where possible, all access roads and other disturbed areas being covered with topsoil, deep ripped and revegetated with local native grasses, shrubs and trees to the satisfaction of the State Mining Engineer.	26/03/1993	03/06/2022
14	Any alteration or expansion of operations within the lease boundaries beyond that outlined in the above document(s) not commencing until a plan of operations and a programme to safeguard the environment are submitted to the Executive Director, Environment, DMP for his assessment and until his written approval to proceed has been obtained:	15/09/2011	03/06/2022
	Any alteration or expansion of operations within the lease boundaries beyond that outlined in the above document not commencing until a plan of operations and a program to safeguard the environment are submitted to the State Mining Engineer for his assessment and until his written approval to proceed has been obtained:	26/03/1993	14/09/2011
15	The construction and operation of the tailings dam being such as to maximise settled tailings density, minimise water seepage and to collect any such seepage and return it to the tailings dam process plant circuit.	26/03/1993	
16	The area of water ponded in the tailings dam being kept to a practical minimum any fauna mortalities in the tailings dam being reported to the District Mining Engineer.	26/03/1993	
17	The outcrops of the tailings dam being progressively	26/03/1993	13/02/2007
18	At the time of close out of the tailings facility, and prior to rehabilitation, the lessee submitting a review by a geotechnical/ engineering specialist of the status of the structure, its contained tailings and the results of the environmental monitoring and any remedial works required. When the tailings have dried sufficiently, the surface of the tailings dam being covered with at least 0.5 metres of waste rock followed with topsoil. Subsequently, this surface being revegetated with local native grasses, shrubs and trees.	13/10/1993	
	At the completion of operations and when the tailings have dried sufficiently, the surface of the tailings dam being covered with at least 0.5 metres of waste rock, with topsoil and revegetated with local native grasses, shrubs and trees:	26/03/1993	12/10/1993
19	The lessee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for State Development for due compliance with the environmental conditions of the lease in the sum of:	28/08/2002	15/09/2011
	• \$527,000		
	The lessee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for State Development for due compliance with the environmental conditions of the lease in the sum of:	02/07/2001	27/08/2002
	• \$382,000		
	The lessee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for Mines in the sum of \$520,000 for due compliance with the environmental conditions of the lease:	09/02/1999	01/07/2001
	The lessee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for Mines in the sum of \$301,800 for due compliance with the environmental conditions of the lease:	10/10/1997	08/02/1999
	The lessee arranging lodgement of an Unconditional Performance Bond executed by a Bank or other approved financial institution in favour of the Minister for Mines in the sum of \$586,000 for due compliance with the environmental conditions of the lease:	17/01/1997	09/10/1997
	The lessee providing a Bank Guaranteed Unconditional Performance Bond in favour of the Minister for Mines in the sum of \$245,000 for due compliance with the environmental conditions on the lease:	26/03/1993	16/01/1997
20	The Lessee submitting to the Executive Director, Environment Division, DMP, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental	02/09/2014	03/06/2022

#	CONDITIONS	Start Date	End Date
	management plans and rehabilitation programmes for the next 12 months. This report to be submitted each year in: <ul style="list-style-type: none"> January 		
	The Lessee submitting to the Executive Director, Environment Division, DMP, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This report to be submitted each year in: <ul style="list-style-type: none"> October. 	30/05/2012	01/09/2014
	The Lessee submitting to the Executive Director, Environment Division, DMP, a brief annual report outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This report to be submitted each year in: <ul style="list-style-type: none"> August. 	15/09/2011	29/05/2012
	The lessee submitting to the State Mining Engineer in August of each year, a brief annual report outlining the operations and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This annual report shall include a complete review of the active tailings facilities, with examination of the performance of the structure, validation of the design, examination of the tailings management and distribution and discussion of the results of all environmental monitoring, undertaken by a geotechnical/ engineering specialists.	09/02/1999	14/09/2011
	The lessee submitting to the State Mining Engineer in October of each year, a brief annual report outlining the operations and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programmes for the next 12 months. This annual report shall include a complete review of the active tailings facilities, with examination of the performance of the structure, validation of the design, examination of the tailings management and distribution and discussion of the results of all environmental monitoring, undertaken by a geotechnical/ engineering specialists.	10/10/1997	08/02/1999
	The lessee submitting to the State Mining Engineer in October of each year, a brief annual report outlining the operations and rehabilitation work undertaken in the previous 12 months and the proposed operations and rehabilitation programmes for the next 12 months. This annual report shall include a complete review of the active tailings facilities, with examination of the performance of the structure, validation of the design, examination of the tailings management and distribution and discussion of the results of all environmental monitoring, undertaken by a geotechnical/ engineering specialists.	13/10/1993	09/10/1997
	The lessee submitting to the State Mining Engineer in June of each year, a brief annual report outlining the project operations and rehabilitation work undertaken in the previous 12 months and the proposed operations and rehabilitation programmes for the next 12 months.	26/03/1993	12/10/1993
21	The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the letter dated 10 September 1992, signed by Michael Charlton and retained on Department of Minerals and Energy File No. 2304/92. Where a difference exists between the above documents and the following conditions, then the following conditions shall prevail.	26/03/1993	
22	As far as practicable larger shrubs and trees being left untouched.	26/03/1993	
23	The soil and vegetation being respread over the worked areas as work progresses so as to reconstitute the original landform. In particular, creeks and channels being reconstituted.	26/03/1993	03/06/2022
24	All rubbish and scrap being disposed of progressively in a manner agreeable to the District Inspector.	26/03/1993	19/09/2012
25	At the termination of operations, all man-made structures, dwellings and other developments being removed from the site. The site is to be left in a clean and tidy state.	26/03/1993	19/09/2012
26	The affected area is to be reseeded with local native grasses, shrubs and grasses in the autumn following cessation of operation.	26/03/1993	19/09/2012
27	The District Mining Engineer is to be notified 30 days prior to cessation of operations for a joint inspection.	26/03/1993	
28	Any alteration or expansion of operations within the lease boundaries beyond that outlined in the above document not commencing until a plan of operations and a programme to safeguard the environment are submitted to the State Mining Engineer for his assessment and until his written approval to proceed has been obtained.	26/03/1993	15/09/2011
29	The lessee providing a Bond in favour of the Hon Minister for Mines in the sum of \$2,000 for due compliance with the environmental conditions on the lease.	26/03/1993	10/10/1997

#	CONDITIONS	Start Date	End Date
30	Mining on a strip of land 20 metres wide with any pipeline as the centreline being confined to below a depth of 31 metres from the natural surface and no mining material being deposited upon such strip and the rights of ingress to and egress from the facility being at all times preserved to the Water Authority of WA.	26/03/1993	
31	No excavation, excepting shafts, approaching closer than 60 metres to the centre line of the re-aligned Great Eastern Highway and mining on the Eastern Highway, Highway verge and the Highway reserve being confined to below a depth of 30 metres from the natural surface.	26/03/1993	
32	No interference with the transmission line or the installations in connection therewith.	26/03/1993	
33	Rights of ingress to and egress from the transmission line being at all times preserved to employees of the State Energy Commission.	26/03/1993	
34	The rights of ingress to and egress from Miscellaneous Licences 15/34, 15/42, 15/107, 15/122, 15/123 and 15/164 being at all times preserved to the licensee and no interference with the purpose or installations connected to the Miscellaneous Licences.	26/03/1993	
	Consent to mine on Rifle Range Reserve 8388 given subject to:	26/03/1993	
35	Mining operations being carried out at such times and in such a manner as not to interfere with the full use of the Rifle Range Reserve.	26/03/1993	
36	No mining activity taking place when the range is in use for rifle practice.	26/03/1993	
37	No person being permitted to reside on the reserve.	26/03/1993	
38	The Rifle Club being completely absolved from liability for damage or injury from any accident to person or property which may occur within the boundaries of the Rifle Range Reserve as the result of the granting of the claims, and the holders of the claims observing all necessary safety precautions to ensure freedom from accident arising from the use of the Rifle Range.	26/03/1993	
39	In the event of mining operations being of such a nature as to be inconsistent with the normal use of the Reserve as a Rifle Range, the lessee being responsible for the cost of expense of rebuilding a Rifle Range on another approved site to the requirements of the West Australian Rifle Association prior to such mining operations commencing.	26/03/1993	
40	The waste dump not to exceed 35 metres in height except with the prior written approval of the State Mining Engineer.	17/01/1997	
41	The lessee obtaining the prior approval of Main Roads Western Australia before the new haulage road is constructed to meet the Great Eastern Highway.	17/01/1997	
42	The lessee rehabilitating the surface of the waste dump with perennial vegetation cover to the satisfaction of the State Mining Engineer and providing an annual report of the extent and distribution of the cover.	17/01/1997	19/09/2012
43	Any saline water spills or environmental incidents are to be reported to the Regional Environmental Officer, Department of Industry and Resources within 48 hours of occurrence.	10/02/2004	03/06/2022
44	The lessee taking all reasonable and practicable measures to prevent or minimise the generation of dust from all materials handling operations, stockpiles, open areas and transport activities.	10/02/2004	
45	Where saline water is used for dust suppression, all reasonable measures being taken to avoid any detrimental effects to surrounding vegetation.	10/02/2004	
46	Placement of waste material must be such that the final footprint after rehabilitation will not be impacted upon by pit wall subsidence and zone of instability.	10/02/2004	
47	All topsoil vegetation being removed ahead of all mining operations and being stockpiled appropriately for later respreading or immediately respread as rehabilitation progresses.	06/12/2006	15/09/2011
48	A maximum of two (2) hectare opens at any one time, with one (1) hectare being actively worked. The Environmental Officer is to be notified immediately following the reconstitution of each one (1) hectare of area worked, by scraping and detecting and dry blowing and work not proceeding further until his/her approval is granted.	18/08/2009	
49	The lessee taking all reasonable and practicable measures to prevent or minimise the generation of dust from all materials handling operations, stockpiles, open areas and transport activities.	15/09/2011	19/09/2012
50	On the completion of operations or progressively when possible, all waste dumps, tailings storage facilities, stockpiles or other mining related landforms must be rehabilitated to form safe, stable, non-polluting structures which are integrated with the surrounding landscape and support self-sustaining, functional ecosystems comprising suitable, local provenance species or an alternative agreed outcome to the satisfaction of the Executive Director, Environment Division, DMP.	18/06/2014	03/06/2022
	On the completion of operations or progressively when possible, all waste dumps, tailings storage facilities, stockpiles or other mining related landforms must be rehabilitated to form safe, stable, non-polluting structures which are integrated with the surrounding landscape and	15/09/2011	17/06/2014

#	CONDITIONS	Start Date	End Date
	support self-sustaining, functional ecosystems comprising suitable, local provenance species or an alternative agreed outcome to the satisfaction of an Environmental Officer, DMP:		
51	The construction of any tailings storage embankment shall be supervised by an engineering/geotechnical specialist.	15/09/2011	
52	The construction details of any tailings storage embankment shall be documented by an engineering or geotechnical specialist and confirm that the construction satisfies the design intent. The construction document shall include the records of all construction quality control testing, the basis of any method specification adopted, and any significant modifications to the original design together with the reasons why the modifications were necessary. The construction document shall also present as-built drawings for the embankment earthworks and pipework. A copy of the construction document shall be submitted to DMP for its records.	15/09/2011	
53	The tailings storage facility shall be checked on a routine daily basis by site personnel during periods of deposition to ensure that the facility is functioning as per the design intent.	15/09/2011	
54	An engineering or geotechnical specialist shall audit and review the active tailings storage facility on an annual basis. The specialist shall review past performance, validate the design, examine tailings management, and review the results of monitoring. Any deficiencies noted in the audit and review report shall be suitably addressed and improved. The audit and review report shall be submitted to DMP and should be accompanied by a recent survey pick-up of the facility and an updated tailings storage data sheet.	15/09/2011	
55	At the time of decommissioning of the tailings storage facility and prior to rehabilitation, a further review report by a geotechnical or engineering specialist will be required by the Director, Environment, DMP. This report should review the status of the structure and its contained tailings, examine and address the implications of the physical and chemical characteristics of the materials, and present and review the results of all environmental monitoring. The rehabilitation stabilisation works proposed and any on-going remedial requirements should also be addressed.	15/09/2011	
56	A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified in tenement conditions in the year specified below, unless otherwise directed by an Environmental Officer, DMP. The Mine Closure Plan is to be prepared in accordance with the "Guidelines for Preparing Mine Closure Plans" available on DMP's website: <ul style="list-style-type: none"> 2015: A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified in tenement conditions in the year specified below, unless otherwise directed by an Environmental Officer, DMP. The Mine Closure Plan is to be prepared in accordance with the "Guidelines for Preparing Mine Closure Plans" available on DMP's website: <ul style="list-style-type: none"> 2012: 	04/06/2013	03/05/2017
		01/08/2012	03/06/2013
57	All activities being carried out in such a manner so as to not have a detrimental effect on the natural water flow through the lease and surrounding areas to the satisfaction of the Environmental Officer, DMP.	18/06/2014	
58	A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified in tenement conditions in the year specified below, unless otherwise directed by the Executive Director Resource and Environmental Compliance Division, Department of Mines, Industry Regulation and Safety. The Mine Closure Plan is to be prepared in accordance with the Department's "Guidelines for Preparing Mine Closure Plans": <ul style="list-style-type: none"> 2020 A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified in tenement conditions in the year specified below, unless otherwise directed by an Environmental Officer, DMP. The Mine Closure Plan is to be prepared in accordance with the "Guidelines for Preparing Mine Closure Plans" available on DMP's website: <ul style="list-style-type: none"> 2018 	09/08/2018	03/06/2022
		03/05/2017	08/08/2018
59	All mining operations approved by a Mining Proposal submitted on or after 3 March 2020 to meet the environmental outcomes and performance criteria stated in the latest, relevant approved Mining Proposal/s.	03/06/2022	
60	All ground disturbance approved by a Mining Proposal submitted on or after 3 March 2020 to be undertaken within the disturbance envelope as presented within the latest, relevant approved Mining Proposal/s.	03/06/2022	
61	No alteration or expansion of mining operations beyond the activities described within the Activity, and Key Mine Activity tables of the latest, relevant approved Mining Proposal/s unless a subsequent Mining Proposal is submitted, in the form defined in section 700 of the <i>Mining Act 1978</i> , to cover the alteration or expansion, and until such Mining Proposal is approved by the Executive Director, Resource and Environmental Compliance Division, Department of Mines, Industry Regulation and Safety.	03/06/2022	

#	CONDITIONS	Start Date	End Date
62	The Lessee to ensure adequate environmental monitoring and analysis is undertaken of activities approved by a Mining Proposal submitted on or after 3 March 2020 to demonstrate the level of achievement of the performance criteria stated in the latest, relevant approved Mining Proposal/s.	03/06/2022	
63	Report any breach of environmental outcome or performance criteria contained within an approved Mining Proposal submitted on or after 3 March 2020, to the Executive Director, Resource and Environmental Compliance Division, Department of Mines, Industry Regulation and Safety within 24 hours of becoming aware of the occurrence of the breach.	03/06/2022	
64	Management of mine closure to be undertaken in accordance with the latest, relevant, approved Mine Closure Plan.	03/06/2022	
65	Report any incident arising from mining activities that has caused, or has the potential to cause environmental harm or injury to the land, to the Executive Director, Resource and Environmental Compliance Division, Department of Mines, Industry Regulation and Safety, within 24 hours of becoming aware of the occurrence of the incident.	03/06/2022	
66	Topsoil and vegetation to be removed ahead of mining operations and appropriately stockpiled for later respreading or immediately respread as rehabilitation progresses.	03/06/2022	
67	All mining related landforms and disturbances must be rehabilitated, in a progressive manner where practicable, to ensure they are safe, stable, non-polluting, integrated with the surrounding landscape and support self-sustaining, functional ecosystems or alternative agreed outcome to the satisfaction of the Executive Director, Resource and Environmental Compliance, Department of Mines, Industry Regulation and Safety.	03/06/2022	
68	An annual environmental report is to be submitted to the Executive Director, Resource and Environmental Compliance, Department of Mines, Industry Regulation and Safety, outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programs for the next 12 months. This report is to be submitted each year in: <ul style="list-style-type: none"> January 	03/06/2022	21/02/2024
69	A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified in tenement conditions in the year specified below, unless otherwise directed by the Executive Director Resource and Environmental Compliance Division, Department of Mines, Industry Regulation and Safety. The Mine Closure Plan is to be prepared in accordance with the Department's "Guidelines for Preparing Mine Closure Plans": <ul style="list-style-type: none"> 2024 	03/06/2022	
70	Any alteration or expansion of operations within the lease boundaries beyond that outlined in the above document(s) not commencing until a plan of operations and a programme to safeguard the environment are submitted to the Executive Director, Resource and Environmental Compliance, DMIRS for assessment and until the Executive Director's written approval to proceed has been obtained.	27/07/2022	
71	All rubbish and waste will be appropriately managed and disposed.	27/07/2022	
72	All reasonable measures will be taken to ensure all hydrocarbons, environmentally hazardous chemicals, process water and other environmentally hazardous substances or waste are stored and managed in a manner to prevent discharges to the environment.	27/07/2022	
73	All hydrocarbon spills or chemical spills will be contained and cleaned up within a timely manner.	27/07/2022	
74	All excavations will be backfilled and/or closed to ensure they are stable and safe to the satisfaction of the Executive Director, Resource and Environmental Compliance Division, DMIRS.	27/07/2022	
75	All waste materials, rubbish, plastic sample bags, abandoned equipment and temporary buildings being removed from the mining tenement prior to or at the termination of the operation.	27/07/2022	
76	All chemicals and hydrocarbons will be removed from site prior to or at the termination of the operation.	27/07/2022	
77	All reasonable and practicable measures will be taken to prevent the spread of dieback and weeds.	05/09/2022	
78	Lined storage dams will be fitted with appropriate fauna egress points to ensure that any fauna does not become entrapped.	06/04/2023	
79	Clearing of large, mature trees will be avoided, where practicable.	06/02/2024	
80	All activities to be undertaken so as to avoid or minimise damage, disturbance or contamination of waterways, including their beds and banks, riparian and other water dependent vegetation.	06/02/2024	
81	Any watercourses that are disturbed by mining operations will be restored, as far as practicable, to the pre-disturbance conditions.	06/02/2024	

#	CONDITIONS	Start Date	End Date
82	An annual environmental report is to be submitted to the Executive Director, Resource and Environmental Compliance, Department of Energy, Mines, Industry Regulation and Safety, outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programs for the next 12 months. This report is to be submitted each year in: <ul style="list-style-type: none"> November 	21/02/2024	07/08/2024
83	An annual environmental report is to be submitted to the Executive Director, Resource and Environmental Compliance, Department of Energy, Mines, Industry Regulation and Safety, outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programs for the next 12 months. This report is to be submitted each year in: <ul style="list-style-type: none"> January 	07/08/2024	

DEALINGS DETAILS

Dealings

	Encumbrances
Bond PE1088	Lodged on 22 Feb 1993 For \$2,000.00 (Personal Surety) RECORDED 22 Feb 1993 RETIRED 08 Jan 1998
Bond PE1128	Lodged on 25 Feb 1993 For \$245,000.00 RECORDED 25 Feb 1993 RETIRED 08 Jan 1998
Bond PE1086	Lodged on 26 Feb 1993 For \$245,000.00 RECORDED 26 Feb 1993 RETIRED 20 Apr 1993
Caveat 1291H/923	Lodged 12:30:00 PM on 06 Apr 1993 by CITIBANK LTD RECORDED 12:30 PM 06 Apr 1993 LAPSED 9:00 AM 17 Jun 1993
Agreement 219H/923	Agreement (Deed of Confirmation) GOLDFAN LTD, CHARTFIELD LTD and BURMINE OPERATIONS PTY LTD Lodged 2:10:00 PM on 10 May 1993 REGISTERED 9:00 AM 17 Jun 1993
Mortgage 39H/923	Lodged 3:10:00 PM on 17 Jun 1993 in favour of CITIBANK LTD REGISTERED 3:10 PM 17 Jun 1993 Discharged by Withdrawal 302H/989 lodged 2:25:00 PM on 06 May 1999
Agreement 22H/934	Agreement (Deed of Confirmation of Royalty) GOLDFAN LTD, Barry Nicholas IVANAC and Kevin Michael PAVLINOVICH Lodged 2:05:00 PM on 04 Aug 1993 REGISTERED 2:05 PM 04 Aug 1993
Bond PE2628	Lodged on 25 Jan 1996 For \$47,000.00 RECORDED 25 Jan 1996 RETIRED 08 Jan 1998
Agreement 246H/956	Agreement (Deed of Confirmation) GOLDFAN LTD, CHARTFIELD LTD and BURMINE OPERATIONS PTY LTD Lodged 2:40:00 PM on 21 Feb 1996 REGISTERED 2:40 PM 21 Feb 1996
Bond PE3093	Lodged on 03 Dec 1996 For \$47,000.00 RECORDED 03 Dec 1996 RETIRED 08 Jan 1998
Bond PE3098	Lodged on 03 Dec 1996 For \$245,000.00 RECORDED 03 Dec 1996 RETIRED 08 Jan 1998
Bond PE3662	Lodged on 17 Nov 1997 For \$301,800.00 RECORDED 17 Nov 1997 RETIRED 11 Nov 1998

Bond PE4486	Lodged on 22 Sep 1998 For \$301,800.00 RECORDED 22 Sep 1998 RETIRED 15 Apr 1999
Bond PE4820	Lodged on 07 Apr 1999 For \$520,000.00 RECORDED 31 Mar 1999 RETIRED 16 Aug 2001
Mortgage - Discharge 302H/989	In respect to Mortgage 39H/923 lodged 2:25:00 PM on 06 May 1999 REGISTERED 2:25 PM 06 May 1999
Agreement 31H/990	Agreement (Coolgardie Joint Venture) HERALD RESOURCES LTD, MPI GOLD PTY LTD, MINING PROJECT INVESTORS PTY LTD, PITTSTON MINERALS VENTURES OF AUSTRALIA PTY LTD, PITTSTON MINERAL VENTURES COMPANY, HERALD OPERATIONS PTY LTD and GOLDFAN LTD Lodged 11:00:00 AM on 06 Dec 1999 REGISTERED 11:00 AM 06 Dec 1999
Agreement 32H/990	Agreement (Variation - Coolgardie Joint Venture.) HERALD RESOURCES LTD, HERALD OPERATIONS PTY LTD, GOLDFAN LTD, MPI GOLD PTY LTD, PITTSTON MINERALS VENTURES OF AUSTRALIA PTY LTD, PITTSTON MINERAL VENTURES COMPANY and MINING PROJECT INVESTORS PTY LTD Lodged 11:00:00 AM on 06 Dec 1999 REGISTERED 11:00 AM 06 Dec 1999
Caveat 464H/990	Lodged 11:00:00 AM on 06 Dec 1999 by MINING PROJECT INVESTORS PTY LTD RECORDED 11:00 AM 06 Dec 1999 Re: Mortgage 24H/001: 14 day notice sent 04 Apr 2001. Order under Section 121(1)(c) that caveat remain in full force and effect upon expiry of 14 day notice, signed G.Calder, Warden, 18 Apr 2001 Re: Agreements 120H/012 to 122H/012: 14 days notice sent 26 Jun 2002. Order under Section 121 (1) (c) that caveat remains in full force and effect upon expiry of 14 days notice, signed G. Calder Warden on 09 Jul 2002. Re: Mortgage 5H/023: 14 days notice sent 29 Jul 2002. Order under Section 121 (1) (c) that caveat remains in full force and effect upon expiry of 14 days notice, signed G. Calder Warden on 07 Aug 2002. Re Agreements 102H/023 to 106H/023 14 day notice sent 04 Jun 2003 LAPSED 12:00 Midnight on 18 Jun 2003
Mortgage 24H/001	Lodged 3:30:00 PM on 19 Mar 2001 in favour of MACQUARIE BANK LTD REGISTERED 10:00 AM 18 Apr 2001 Discharged by Withdrawal 191429 lodged 2:44:00 PM on 23 Dec 2005
Bond PE6628	Lodged 8:05:00 AM on 09 Aug 2001 For \$382,000.00 RECORDED 8:05 AM 09 Aug 2001 RETIRED 29 May 2002
Bond PE7307	Lodged 2:30:00 PM on 22 May 2002 For \$527,000.00 RECORDED 2:30 PM 22 May 2002 RETIRED 07 Mar 2006
Agreement 120H/012	Agreement (Joint Venture) HERALD RESOURCES LTD, HERALD OPERATIONS PTY LTD, GOLDFAN LTD, MPI GOLD PTY LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD, MINING PROJECT INVESTORS PTY LTD and PITTSTON MINERAL VENTURES CO. Lodged 11:25:00 AM on 12 Jun 2002 REGISTERED 10:00 AM 09 Jul 2002
Agreement 122H/012	Agreement (Deed of Cross Charge) GOLDFAN LTD, HERALD OPERATIONS PTY LTD, MPI GOLD PTY LTD and PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD Lodged 11:25:00 AM on 12 Jun 2002 REGISTERED 10:00 AM 09 Jul 2002

Agreement 121H/012	<p>Agreement (Joint Venture) MPI GOLD PTY LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD, HERALD OPERATIONS PTY LTD and GOLDFAN LTD Lodged 11:25:00 AM on 12 Jun 2002</p> <p>REGISTERED 10:00 AM 09 Jul 2002</p>
Mortgage 5H/023	<p>Lodged 10:20 AM on 15 Jul 2002 in favour of MACQUARIE BANK LTD</p> <p>REGISTERED 10:00 AM 07 Aug 2002</p> <p>Discharged by Withdrawal 191430 lodged 2:44:00 PM on 23 Dec 2005</p>
Caveat 39H/023	<p>Lodged 4:00:00 PM on 18 Jul 2002 by MACQUARIE BANK LTD in respect to 100/100ths shares in the name of GOLDFAN LTD</p> <p>RECORDED 10:00 AM 07 Aug 2002</p> <p>Re Agreements 102H/023 to 107H/023 14 day notice sent 04 Jun 2003.</p> <p>Caveat to remain in full force and effect by order of Warden Heaney on 18 Jun 2003</p> <p>WITHDRAWN 2:44 PM 23 Dec 2005</p>
Bond Requirement 312220	<p>Requirement Date: 28/08/2002</p> <p>Amount: \$527,000.00</p> <p>RECORDED: 12:02 28 August 2002</p> <p>FINALISED: 09:00:15 14 September 2011</p>
Caveat 322H/023	<p>Lodged 4:20:00 PM on 19 Nov 2002 by MACQUARIE BANK LTD in respect to 50/100ths shares in the name of GOLDFAN LTD</p> <p>RECORDED 4:20 PM 19 Nov 2002</p> <p>Re Agreements 102H/023 to 107H/023 14 day notice sent 04 Jun 2003.</p> <p>Caveat to remain in full force and effect by order of Warden Heaney on 18 Jun 2003</p> <p>WITHDRAWN 2:44 PM 23 Dec 2005</p>
Agreement 102H/023	<p>Agreement (Deed of Assignment and Assumption- Heads of Agreement- PWAMC) HERALD OPERATIONS PTY LTD, HERALD RESOURCES LTD, GOLDFAN LTD, COOLGARDIE OPERATIONS PTY LTD, MINING PROJECT INVESTORS PTY LTD, PITTSTON MINERAL VENTURES CO., PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD and PITTSTON WESTERN AUSTRALIAN MINERALS COMPANY PTY LTD Lodged 10:45 AM on 06 May 2003</p> <p>REGISTERED 8:30 AM 19 Jun 2003</p>
Agreement 103H/023	<p>Agreement (Deed of Assignment and Assumption - Heads of Agreement - COPL) HERALD RESOURCES LTD, HERALD OPERATIONS PTY LTD, GOLDFAN LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD, MINING PROJECT INVESTORS PTY LTD, PITTSTON MINERAL VENTURES CO., MPI GOLD PTY LTD and COOLGARDIE OPERATIONS PTY LTD Lodged 10:45:00 AM on 06 May 2003</p> <p>REGISTERED 8:30 AM 19 Jun 2003</p>
Agreement 104H/023	<p>Agreement (Deed of Assignment and Assumption - Mining Joint Venture Agreement - PWAMC) HERALD OPERATIONS PTY LTD, GOLDFAN LTD, COOLGARDIE OPERATIONS PTY LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD and PITTSTON WESTERN AUSTRALIAN MINERALS COMPANY PTY LTD Lodged 10:45:00 AM on 06 May 2003</p> <p>REGISTERED 8:30 AM 19 Jun 2003</p>
Agreement 105H/023	<p>Agreement (Deed of Assignment and Assumption - Mining Joint Venture Agreement - COPL) HERALD OPERATIONS PTY LTD, GOLDFAN LTD, PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD, MPI GOLD PTY LTD and COOLGARDIE OPERATIONS PTY LTD Lodged 10:45:00 AM on 06 May 2003</p> <p>REGISTERED 8:30 AM 19 Jun 2003</p>
Agreement 106H/023	<p>Agreement (Deed of Cross Charge) GOLDFAN LTD, COOLGARDIE OPERATIONS PTY LTD and PITTSTON WESTERN AUSTRALIAN MINERALS COMPANY PTY LTD Lodged 10:45:00 AM on 06 May 2003</p>

	REGISTERED 8:30 AM 19 Jun 2003
Agreement 107H/023	Agreement (Coolgardie Project - Deed of Assignment of Mill Area Interests) HERALD OPERATIONS PTY LTD, GOLDFAN LTD, COOLGARDIE OPERATIONS PTY LTD and PITTSTON WESTERN AUSTRALIAN MINERALS COMPANY PTY LTD Lodged 10:45:00 AM on 06 May 2003 REGISTERED 8:30 AM 19 Jun 2003
Agreement 2H/034	Agreement (Deed of Variation) HERALD OPERATIONS PTY LTD, GOLDFAN LTD, MPI GOLD PTY LTD and PITTSTON MINERAL VENTURES OF AUSTRALIA PTY LTD Lodged 2:35:00 PM on 17 Jul 2003 REGISTERED 2:35 PM 17 Jul 2003
Caveat 45H/034	Lodged 4:02:00 PM on 07 Aug 2003 by MPI MINES LTD Leave to Lodge Successive caveat granted by the Warden on 22 Aug 2003 RECORDED 10:00 AM 22 Aug 2003 WITHDRAWN 2:44 PM 23 Dec 2005
Caveat 162H/056	Lodged 2:48:00 PM on 05 Aug 2005 by AUSTMINEX LTD RECORDED 2:48 PM 05 Aug 2005 Re Transfers 927H/056 and 1020H/056 14 day notice sent 20 Jan 2006. LAPSED 12:00 Midnight on 03 Feb 2006
Agreement 15H/056	Agreement (Acquisition) HERALD OPERATIONS PTY LTD, HERALD RESOURCES LTD, GOLDFAN LTD, AUSTMINEX LTD, MATADOR MINING PTY LTD and MATADOR EXPLORATION INC Lodged 9:30:00 AM on 12 Sep 2005 REJECTED 9:30 AM 12 Sep 2005
Agreement 16H/056	Agreement (Acquisition) COOLGARDIE OPERATIONS PTY LTD, MATADOR EXPLORATION INC, MATADOR MINING PTY LTD, AUSTMINEX LTD and LEVIATHAN RESOURCES LTD Lodged 9:30:00 AM on 12 Sep 2005 REJECTED 9:30 AM 12 Sep 2005
Mortgage - Discharge 191429	In respect to Mortgage 24H/001 lodged 2:44:00 PM on 23 Dec 2005 REGISTERED 2:44 PM 23 Dec 2005
Mortgage - Discharge 100H/056	In respect to Mortgage 5H/023 lodged 2:44:00 PM on 23 Dec 2005 REGISTERED 2:44 PM 23 Dec 2005
Withdrawal of Dealing 102H/056	Lodged 2:44:00 PM on 23 Dec 2005 withdrawing Caveat 322H/023 REGISTERED 2:44 PM 23 Dec 2005
Withdrawal of Dealing 103H/056	Lodged 2:44:00 PM on 23 Dec 2005 withdrawing Caveat 39H/023 REGISTERED 2:44 PM 23 Dec 2005
Withdrawal of Dealing 104H/056	Lodged 2:44:00 PM on 23 Dec 2005 withdrawing Caveat 45H/034 REGISTERED 2:44 PM 23 Dec 2005
Bond 234283	Lodged on 01 Mar 2006 For \$527,000.00 RECORDED 01 Mar 2006 RETIRED 13 Oct 2008
Mortgage 289949	Lodged 3:00:00 PM on 05 May 2008 in favour of INVESTEC BANK (AUSTRALIA) LTD in respect to 90/100ths shares in the name of FOCUS MINERALS LTD (ACN 005 470 799) REGISTERED 3:00 PM 05 May 2008 DISCHARGED: 12:50 02 April 2013
Mortgage 289950	Lodged 3:00 PM on 05 May 2008 in favour of INVESTEC BANK (AUSTRALIA) LTD in respect to 10/100ths shares in the name of REDEMPTION MANAGEMENT PTY LTD REGISTERED 3:00 PM 05 May 2008 DISCHARGED: 12:50 02 April 2013
Bond 297159	Lodged 3:50 PM on 11 Aug 2008 For \$527,000.00 (Unconditional Performance Bond) REJECTED 3:50 PM 11 Aug 2008 RELODGED 4:30 PM 21 Aug 2008 RECORDED 4:30 PM 21 Aug 2008 RETIRED: 15 September 2011

Application to Amend 310866	Lodged:	09:30 27 January 2009
	Amending:	Address
	From:	FOCUS OPERATIONS PTY LTD, 41 BROOKMAN STREET, KALGOORLIE, WA, 6430
	To:	FOCUS OPERATIONS PTY LTD, C/- KEN MAGUIRE, 9 CHUDLEIGH STREET, FREMANTLE, WA, 6160
	RECORDED:	09:30 27 January 2009
Bond 380816	Lodged:	14:00 07 September 2011
	Bond Type:	Unconditional Performance Bond
	Bond Amount:	\$847,000.00
	RECORDED:	07 September 2011
	RETIRED:	31 July 2014
Bond Requirement 381293	Requirement Date:	15/09/2011
	Amount:	\$847,000.00
	RECORDED:	09:08:01 15 September 2011
	FINALISED:	12:50:30 19 September 2012
Bond 404310	Lodged:	09:40 22 August 2012
	Bond Type:	Unconditional Performance Bond
	Bond Amount:	\$357,000.00
	REJECTED:	09:40 22 August 2012
Bond 404462	Lodged:	14:50 23 August 2012
	Bond Type:	Unconditional Performance Bond
	Bond Amount:	\$357,000.00
	RECORDED:	23 August 2012
	RETIRED:	27 July 2015
Bond Requirement 406087	Requirement Date:	17/09/2012
	Amount:	\$1,204,000.00
	RECORDED:	09:26:35 19 September 2012
Mortgage - Discharge 420047	Lodged:	12:50 02 April 2013
	In respect to:	Mortgage 289949
	REGISTERED:	12:50 02 April 2013
Mortgage - Discharge 420048	Lodged:	12:50 02 April 2013
	In respect to:	Mortgage 289950
	REGISTERED:	12:50 02 April 2013
Application to Amend 423370	Lodged:	09:55 16 May 2013
	REJECTED:	09:55 16 May 2013
Forfeiture 432395	Initiated:	09/10/2013 for non-compliance with royalty provisions
	RECORDED:	11:39:24 03 October 2013
	Notice Issued:	Regulation 50 Notice sent 09/10/2013 for non-compliance with royalty provisions pursuant to Sec 82(1)(a).
	Compliance Date:	13/11/2013
	FINALISED:	Order by Minister on 06 December 2013 that M 15/645 be No Penalty Imposed
Extension / Renewal of Term 438816	Lodged:	09:30 17 January 2014
	Applied For Period:	21 Years
	RECORDED:	09:30 17 January 2014
	GRANTED:	22 January 2014
	Granted Period:	21 Years
	Term Renewed To:	25/03/2035
Application to Amend 448467	Lodged:	15:32 09 June 2014
	Amending:	Address

	From:	FOCUS OPERATIONS PTY LTD, C/- KEN MAGUIRE, 9 CHUDLEIGH STREET, FREMANTLE, WA, 6160
	To:	FOCUS OPERATIONS PTY LTD, C/-MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931
	RECORDED:	15:32 09 June 2014
Application to Amend 448468	Lodged:	15:32 09 June 2014
	Amending:	Address
	From:	FOCUS MINERALS LTD, C/- ATTN: KEN MAGUIRE: TENEMENT ADMINISTRATION, 9 CHUDLEIGH STREET, FREMANTLE, WA, 6160
	To:	FOCUS MINERALS LTD, C/- MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931
	RECORDED:	15:32 09 June 2014
Bond 451677	Lodged:	14:15 25 July 2014
	Bond Type:	Unconditional Performance Bond
	Bond Amount:	\$847,000.00
	RECORDED:	25 July 2014
	RETIRED:	30 September 2014
Bond 455116	Lodged:	09:30 22 September 2014
	Bond Type:	Unconditional Performance Bond
	Bond Amount:	\$847,000.00
	RECORDED:	22 September 2014
	RETIRED:	27 July 2015
Bond 471259	Lodged:	11:10 16 July 2015
	Bond Type:	Unconditional Performance Bond
	Bond Amount:	\$1,204,000.00
	RECORDED:	16 July 2015
Application to Amend 491515	Lodged:	08:30 01 August 2016
	Amending:	Address (Including DTC Details)
	From:	Principal Place of Business : FOCUS OPERATIONS PTY LTD, SAME AS CORRESPONDENCE and DTC :FOCUS OPERATIONS PTY LTD, C/-MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931
	To:	Principal Place of Business : FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400 and DTC :FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, 089309 0400
	RECORDED:	08:30 01 August 2016
Application to Amend 491559	Lodged:	13:38:30 01 August 2016
	Amending:	Address (Including DTC Details)
	From:	Principal Place of Business : FOCUS MINERALS LTD, SAME AS CORRESPONDENCE and DTC :FOCUS MINERALS LTD, C/- MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931
	To:	Principal Place of Business : FOCUS MINERALS LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400

Requested By: Georgia Donovan/Page 82 of 87

	From:	FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400
	To:	FOCUS OPERATIONS PTY LTD, LEVEL 2, 159 ADELAIDE TERRACE, EAST PERTH, WA, 6004, tenements@focusminerals.com.au, 92157888
	RECORDED:	16:27:47 02 August 2019
Caveat 568226	Lodged:	14:05:18 06 December 2019
	Caveat Type:	Consent Caveat
	Caveator:	FMR INVESTMENTS PTY LIMITED
	Shares Caveated:	10/100 shares FOCUS OPERATIONS PTY LTD 90/100 shares FOCUS MINERALS LTD
	RECORDED:	14:05:18 06 December 2019
Application to Amend 577037	Lodged:	12:56:22 30 April 2020
	Amending:	Address (Including DTC Details)
	From:	FOCUS MINERALS LTD, TENEMENT AND LAND ADMINISTRATION, PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888
	To:	FOCUS MINERALS LTD, TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888
	RECORDED:	12:56:22 30 April 2020
Application to Amend 577038	Lodged:	12:56:22 30 April 2020
	Amending:	Address (Including DTC Details)
	From:	FOCUS OPERATIONS PTY LTD, TENEMENT AND LAND ADMINISTRATION, PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888
	To:	FOCUS OPERATIONS PTY LTD, TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888
	RECORDED:	12:56:22 30 April 2020
Application to Amend 700011	Lodged:	12:45:01 28 March 2024
	Amending:	Address (Including DTC Details)
	From:	FOCUS OPERATIONS PTY LTD, LEVEL 2, 159 ADELAIDE TERRACE, EAST PERTH, WA, 6004, tenements@focusminerals.com.au, 92157888
	To:	FOCUS OPERATIONS PTY LTD, LEVEL 5, 8 ST GEORGES TERRACE, PERTH, WA, 6000, tenements@focusminerals.com.au, 92157888
	RECORDED:	12:45:01 28 March 2024
Application to Amend 700012	Lodged:	12:45:01 28 March 2024
	Amending:	Address (Including DTC Details)
	From:	FOCUS MINERALS LTD, LEVEL 2, 159 ADELAIDE TERRACE, EAST PERTH, WA, 6004, tenements@focusminerals.com.au, 92157888
	To:	FOCUS MINERALS LTD, LEVEL 5, 8 ST GEORGES TERRACE, PERTH, WA, 6000, tenements@focusminerals.com.au, 92157888
	RECORDED:	12:45:01 28 March 2024
Extension of Time 704948	Lodged:	15:01:59 24 May 2024
	Type:	Form 5
	RECORDED:	15:01:59 24 May 2024
	WITHDRAWN:	13:22 05 June 2024
Extension of Time 705853	Lodged:	13:10:46 05 June 2024

Type:Form 5

RECORDED:13:10:46 05 June 2024

APPROVED:08:52:01 06 June 2024

Time extended to lodge to 10 June 2024

BOND DETAILS					
Bond	Surety	Amount	Bond date	Bond status	Bond status date
471259	BANK OF CHINA (AUSTRALIA) LIMITED	\$1,204,000.00	16/07/2015	Recorded	16/07/2015
455116	BANK OF CHINA (AUSTRALIA) LIMITED	\$847,000.00	22/09/2014	Retired	27/07/2015
451677	AUSTRALIA AND NEW ZEALAND BANKING GROUP LTD	\$847,000.00	25/07/2014	Retired	30/09/2014
404462	NATIONAL AUSTRALIA BANK LIMITED	\$357,000.00	23/08/2012	Retired	27/07/2015
404310	NATIONAL AUSTRALIA BANK LIMITED	\$357,000.00	22/08/2012	Rejected	22/08/2012
380816	INVESTEC BANK (AUSTRALIA) LTD	\$847,000.00	07/09/2011	Retired	31/07/2014
297159	INVESTEC BANK (AUSTRALIA) LTD	\$527,000.00	21/08/2008	Retired	15/09/2011
234283	MACQUARIE BANK LTD	\$527,000.00	01/03/2006	Retired	13/10/2008
PE7307	MACQUARIE BANK LTD	\$527,000.00	22/05/2002	Retired	07/03/2006
PE6628	ALLIANZ AUSTRALIA INSURANCE LTD	\$382,000.00	09/08/2001	Retired	29/05/2002
PE4820	MMI GENERAL INSURANCE LTD	\$520,000.00	07/04/1999	Retired	16/08/2001
PE4486	MMI GENERAL INSURANCE LTD	\$301,800.00	22/09/1998	Retired	15/04/1999
PE3662	CITIBANK LIMITED	\$301,800.00	17/11/1997	Retired	11/11/1998
PE3093	CITIBANK LIMITED	\$47,000.00	03/12/1996	Retired	08/01/1998
PE3098	CITIBANK LIMITED	\$245,000.00	03/12/1996	Retired	08/01/1998
PE2628	CITIBANK LIMITED	\$47,000.00	25/01/1996	Retired	08/01/1998
PE1086	MACQUARIE BANK LTD	\$245,000.00	26/02/1993	Retired	20/04/1993
PE1128	CITIBANK LIMITED	\$245,000.00	25/02/1993	Retired	08/01/1998

RENT DETAILS										
Rent Payments										
Type	Year	Receipt Date	Payment No	Receipt No	MR Lodged	Amount	Rental Area	Effective Date	Amount Due	Discrepancy
Payment	2025	19/03/2024	5347727843	10530508	OL	\$18,772.00	721.60000 HA	30/11/2004	\$18,772.00	\$0.00
Payment	2024	20/03/2023	4928185760	10339451	OL	\$17,328.00	721.60000 HA	30/11/2004	\$17,328.00	\$0.00
Payment	2023	21/03/2022	3544652377	10250379	OL	\$15,884.00	721.60000 HA	30/11/2004	\$15,884.00	\$0.00
Payment	2022	15/03/2021	3588837462	10188335	OL	\$14,440.00	721.60000 HA	30/11/2004	\$14,440.00	\$0.00
Payment	2021	13/03/2020	6727685056	10137096	OL	\$14,295.60	721.60000 HA	30/11/2004	\$14,295.60	\$0.00
Payment	2020	21/02/2019	4936613605	10086700	OL	\$13,501.40	721.60000 HA	30/11/2004	\$13,501.40	\$0.00
Payment	2019	13/02/2018	4790327383	FOCUS OPERATIONS FOCUS OPERATIONS	OL	\$12,707.20	721.60000 HA	30/11/2004	\$12,707.20	\$0.00
Payment	2018	17/02/2017		MT-210010922562-EF	OL	\$12,310.10	721.60000 HA	30/11/2004	\$12,310.10	\$0.00
Payment	2017	22/03/2016		MT-210010505765-EF	OL	\$11,913.00	721.60000 HA	30/11/2004	\$11,913.00	\$0.00
Payment	2016	23/03/2015		MT-210010238376-EF	OL	\$11,624.20	721.60000 HA	30/11/2004	\$11,624.20	\$0.00
Payment	2015	13/01/2014		MT-210010153625-EF	OL	\$11,335.40	721.60000 HA	30/11/2004	\$11,335.40	\$0.00
Payment	2014	28/03/2013		06-122191	PE	\$11,118.80	721.60000 HA	30/11/2004	\$11,118.80	\$0.00
Payment	2013	08/03/2012		11052	CO	\$10,830.00	721.60000 HA	30/11/2004	\$10,830.00	\$0.00

Type	Year	Receipt Date	Payment No	Receipt No	MR Lodged	Amount	Rental Area	Effective Date	Amount Due	Discrepancy
Payment	2012	03/03/2011		9700	CO	\$11,515.90	721.60000 HA	30/11/2004	\$11,515.90	\$0.00
Payment	2011	29/01/2010		7717	CO	\$11,277.64	721.60000 HA	30/11/2004	\$11,277.64	\$0.00
Payment	2010	26/02/2009		5831	CO	\$10,801.12	721.60000 HA	30/11/2004	\$10,801.12	\$0.00
Payment	2009	05/03/2008		8883	KA	\$10,483.44	721.60000 HA	30/11/2004	\$10,483.44	\$0.00
Payment	2008	02/03/2007		6005	KA	\$10,006.92	721.60000 HA	30/11/2004	\$10,006.92	\$0.00
Payment	2007	07/03/2006		3582	KA	\$9,689.24	721.60000 HA	30/11/2004	\$9,689.24	\$0.00
Refund	2006	22/03/2005		(REFUND) 9138	PE	\$422.27	721.60000 HA	30/11/2004	\$9,450.98	-\$383.00
Payment	2006	22/03/2005		9138	PE	\$9,490.25				
Payment	2005	12/03/2004		70006	PE	\$9,251.00	721.60000 HA	30/11/2004	\$9,212.72	\$38.28
Payment	2004	24/03/2003		58605	PE	\$8,932.00	721.60000 HA	30/11/2004	\$8,895.04	\$36.96
Payment	2003	13/03/2002		46536	PE	\$870.00	721.60000 HA	30/11/2004	\$8,664.00	\$36.00
Payment	2003	13/03/2002		46537	PE	\$7,830.00				
Payment	2002	26/03/2001		34888	PE	\$7,392.83	721.60000 HA	30/11/2004	\$8,180.26	\$34.00
Payment	2002	26/03/2001		34887	PE	\$821.43				
Payment	2001	09/08/2000		26303	PE	\$548.29	721.60000 HA	30/11/2004	\$7,982.63	\$33.16
Payment	2001	29/03/2000		21474	PE	\$7,467.50				
Payment	2000	25/03/1999		9514	PE	\$7,467.50	721.60000 HA	30/11/2004	\$7,436.60	\$30.90
Payment	1999	24/03/1998		176087	PE	\$7,250.00	721.60000 HA	30/11/2004	\$7,220.00	\$30.00
Payment	1998	28/02/1997		17402	CO	\$7,250.00	721.60000 HA	30/11/2004	\$7,220.00	\$30.00
Payment	1997	15/03/1996		140721	PE	\$7,250.00	721.60000 HA	30/11/2004	\$7,220.00	\$30.00
Payment	1996	13/02/1995		10103	CO	\$6,742.50	721.60000 HA	30/11/2004	\$6,714.60	\$27.90
Payment	1995	15/02/1994		6721	CO	\$6,742.50	721.60000 HA	30/11/2004	\$6,714.60	\$27.90
Payment	1994	27/08/1992		2496	CO	\$6,742.50	721.60000 HA	30/11/2004	\$6,714.60	\$27.90

EXPENDITURE/EXEMPTION DETAILS

Expenditure/Exemptions

Year	Minimum Expenditure	Expenditure Lodged	Total Expenditure	Exemption Amount	Exemption Lodged	Exemption Number	Exemption Status	Outcome Date
2025	\$72,200.00							
2024	\$72,200.00	11/06/2024	\$51,664,059.17					
	\$72,200.00	10/06/2024	\$700,907.32					
2023	\$72,200.00	25/05/2023	\$29,820,766.00					
2022	\$72,200.00	25/05/2022	\$4,691,287.00					
2021	\$72,200.00	25/05/2021	\$1,306,763.00					
2020	\$72,200.00	25/05/2020	\$169,644.00					
2019	\$72,200.00	24/05/2019	\$447,315.18					
2018	\$72,200.00	30/04/2018	\$75,480.87					
2017	\$72,200.00	28/04/2017	\$75,522.00					
2016	\$72,200.00	12/04/2016	\$75,360.00					
2015	\$72,200.00	23/04/2015	\$39,132.00	\$72,200.00	01/05/2015	466729	Granted	23/09/2015
2014	\$72,200.00	12/05/2014	\$129,717.00					
2013	\$72,200.00	15/04/2013	\$28,841,392.40					
2012	\$72,200.00	17/04/2012	\$34,337,174.00					
2011	\$72,200.00	20/04/2011	\$31,621,794.00					
2010	\$72,200.00	20/04/2010	\$40,571,437.00					
2009	\$72,200.00	01/05/2009	\$388,068.00					
2008	\$72,200.00	24/04/2008	\$770,827.00					
2007	\$72,200.00	23/04/2007	\$95,951.00					
2006	\$72,200.00	28/04/2006	\$2,056,007.89					
2005	\$72,425.00	28/04/2005	\$18,496,939.00					
2004	\$72,500.00	13/05/2004	\$17,167,928.00					
2003	\$72,500.00	08/05/2003	\$12,131,639.00					

Year	Minimum Expenditure	Expenditure Lodged	Total Expenditure	Exemption Amount	Exemption Lodged	Exemption Number	Exemption Status	Outcome Date
2002	\$72,500.00	08/05/2002	\$876,867.00					
2001	\$72,500.00	20/04/2001	\$1,906,654.00					
2000	\$72,500.00	01/05/2000	\$1,739,072.00					
1999	\$72,500.00	30/04/1999	\$15,781,062.00					
1998	\$72,500.00	01/05/1998	\$190,778.00					
1997	\$72,500.00	23/05/1997	\$14,956,939.00					
1996	\$72,500.00	02/05/1996	\$305,098.00					
1995	\$72,500.00	23/02/1995	\$23,080,917.00					
1994	\$72,500.00	08/03/1994	\$19,961,166.00					

Expenditure Details

Year	Lodged	Exploration Activities	Mining Activities	Aboriginal Survey	Rent/Rates	Admin.	Prospecting	Total Expenditure
2024	11/06/2024	\$398,731.85	\$50,374,181.23	\$0.00	\$37,549.01	\$853,597.08	\$0.00	\$51,664,059.17
2024	10/06/2024	\$398,731.85	\$216,370.27	\$0.00	\$37,549.01	\$48,256.19	\$0.00	\$700,907.32
2023	25/05/2023	\$672,213.00	\$29,045,795.00	\$7,835.00	\$34,079.00	\$60,844.00	\$0.00	\$29,820,766.00
2022	25/05/2022	\$3,680,408.00	\$733,668.00	\$58,462.00	\$30,505.00	\$188,244.00	\$0.00	\$4,691,287.00
2021	25/05/2021	\$770,979.00	\$424,285.00	\$0.00	\$29,902.00	\$81,597.00	\$0.00	\$1,306,763.00
2020	25/05/2020	\$0.00	\$112,905.00	\$0.00	\$28,465.00	\$28,274.00	\$0.00	\$169,644.00
2019	24/05/2019	\$0.00	\$387,449.63	\$0.00	\$27,588.96	\$32,276.59	\$0.00	\$447,315.18
2018	30/04/2018	\$35,152.00	\$0.00	\$0.00	\$25,952.87	\$14,376.00	\$0.00	\$75,480.87
2017	28/04/2017	\$35,968.00	\$0.00	\$0.00	\$25,114.00	\$14,440.00	\$0.00	\$75,522.00
2016	12/04/2016	\$39,790.00	\$0.00	\$0.00	\$23,010.00	\$12,560.00	\$0.00	\$75,360.00
2015	23/04/2015	\$3,351.00	\$0.00	\$0.00	\$21,341.00	\$14,440.00	\$0.00	\$39,132.00
2014	12/05/2014	\$86,610.00	\$0.00	\$0.00	\$21,488.00	\$21,619.00	\$0.00	\$129,717.00
2013	15/04/2013	\$101,637.50	\$28,705,388.00	\$0.00	\$19,926.82	\$14,440.00	\$0.00	\$28,841,392.40
2012	17/04/2012	\$182,681.00	\$34,120,405.00	\$0.00	\$19,648.00	\$14,440.00	\$0.00	\$34,337,174.00
2011	20/04/2011	\$33,330.00	\$31,554,907.00	\$0.00	\$19,117.00	\$14,440.00	\$0.00	\$31,621,794.00
2010	20/04/2010	\$39,543.00	\$40,498,653.00	\$0.00	\$18,801.00	\$14,440.00	\$0.00	\$40,571,437.00
2009	01/05/2009	\$333,081.00	\$21,974.00	\$0.00	\$18,573.00	\$14,440.00	\$0.00	\$388,068.00
2008	24/04/2008	\$718,095.83	\$20,195.00	\$0.00	\$18,096.17	\$14,440.00	\$0.00	\$770,827.00
2007	23/04/2007	\$64,462.00	\$0.00	\$0.00	\$17,049.00	\$14,440.00	\$0.00	\$95,951.00
2006	28/04/2006	\$3,250.00	\$2,021,693.00	\$0.00	\$16,624.89	\$14,440.00	\$0.00	\$2,056,007.89
2005	28/04/2005	\$14,077.00	\$18,452,451.00	\$0.00	\$15,911.00	\$14,500.00	\$0.00	\$18,496,939.00
2004	13/05/2004	\$948.00	\$17,152,633.00	\$0.00	\$14,157.00	\$190.00	\$0.00	\$17,167,928.00
2003	08/05/2003	\$56,572.00	\$12,051,072.00	\$0.00	\$12,681.00	\$11,314.00	\$0.00	\$12,131,639.00
2002	08/05/2002	\$19,158.00	\$841,768.00	\$0.00	\$12,109.00	\$3,832.00	\$0.00	\$876,867.00
2001	20/04/2001	\$20,404.00	\$1,871,043.00	\$0.00	\$11,126.00	\$4,081.00	\$0.00	\$1,906,654.00
2000	01/05/2000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,739,072.00
1999	30/04/1999	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,781,062.00
1998	01/05/1998	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$190,778.00
1997	23/05/1997	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14,956,939.00
1996	02/05/1996	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$305,098.00
1995	23/02/1995	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23,080,917.00
1994	08/03/1994	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19,961,166.00

COMBINED REPORTING DETAILS

C Number : 93/2007
Project : Coolgardie

Reporting Date : 28/02
Affecting Period : 01/01 - 31/12

Active Tenements:

M 15/23 (11/10/2007)	M 15/150 (11/10/2007)	M 15/154 (11/10/2007)
M 15/237 (10/03/2011)	M 15/277 (11/10/2007)	M 15/365 (11/10/2007)
M 15/384 (11/10/2007)	M 15/385 (11/10/2007)	M 15/410 (11/10/2007)

Active Tenements:

M 15/411 (11/10/2007)	M 15/412 (11/10/2007)	M 15/515 (11/10/2007)
M 15/595 (11/10/2007)	M 15/630 (11/10/2007)	M 15/636 (11/10/2007)
M 15/645 (11/10/2007)	M 15/646 (11/10/2007)	M 15/660 (11/10/2007)
M 15/662 (11/10/2007)	M 15/675 (06/07/2009)	M 15/711 (11/10/2007)
M 15/761 (11/10/2007)	M 15/770 (09/01/2008)	M 15/781 (24/06/2009)
M 15/791 (11/10/2007)	M 15/827 (24/06/2009)	M 15/852 (24/06/2009)
M 15/857 (24/06/2009)	M 15/871 (11/10/2007)	M 15/877 (24/06/2009)
M 15/958 (11/10/2007)	M 15/966 (15/04/2010)	M 15/981 (24/06/2009)
M 15/1114 (11/10/2007)	M 15/1153 (21/11/2007)	M 15/1262 (15/04/2010)
M 15/1293 (11/10/2007)	M 15/1294 (11/10/2007)	M 15/1341 (05/11/2010)
M 15/1357 (05/11/2010)	M 15/1358 (05/11/2010)	M 15/1359 (05/11/2010)
M 15/1384 (11/10/2007)	M 15/1422 (11/10/2007)	M 15/1432 (18/04/2008)
M 15/1433 (11/10/2007)	M 15/1434 (11/10/2007)	M 15/1444 (15/04/2010)
M 15/1461 (15/04/2010)	M 15/1760 (11/10/2007)	M 15/1788 (09/08/2010)
M 15/1789 (04/05/2011)	M 15/1793 (15/04/2010)	P 15/5159 (28/10/2010)
P 15/5702 (19/07/2019)	P 15/5703 (19/07/2019)	P 15/5704 (19/07/2019)
P 15/5712 (23/02/2017)	P 15/5717 (13/02/2013)	P 15/5939 (26/07/2021)
P 15/5964 (23/02/2017)	P 15/5966 (23/02/2017)	P 15/5967 (23/02/2017)
P 15/5968 (23/02/2017)	P 15/5971 (23/02/2017)	P 15/5972 (23/02/2017)
P 15/6002 (19/09/2016)	P 15/6033 (23/02/2017)	P 15/6102 (21/10/2020)
P 15/6118 (18/10/2018)	P 15/6119 (18/10/2018)	P 15/6120 (18/10/2018)
P 15/6121 (18/10/2018)	P 15/6122 (18/10/2018)	P 15/6123 (18/10/2018)
P 15/6176 (21/10/2020)	P 15/6177 (21/10/2020)	P 15/6178 (21/10/2020)
P 15/6251 (17/04/2019)	P 15/6252 (17/04/2019)	P 15/6253 (17/04/2019)
P 15/6254 (17/04/2019)	P 15/6256 (17/04/2019)	P 15/6257 (17/04/2019)
P 15/6335 (08/12/2021)	P 15/6541 (08/12/2021)	P 15/6598 (26/04/2022)
P 15/6605 (01/10/2021)	P 15/6633 (06/07/2023)	P 15/6639 (06/07/2023)
P 15/6667 (11/01/2023)	P 15/6670 (14/06/2022)	P 15/6777 (21/09/2023)
P 15/6785 (14/05/2024)	P 15/6868 (30/10/2024)	

End of Search

MINING TENEMENT REGISTER SEARCH

MINING LEASE 15/827

This Register Search issued pursuant to Section 103F(4) of the Mining Act, 1978 at: **13:28:53 28/11/2024**

Barnett
Jared Barnett
A/Executive Director
Resource Tenure
Department of Energy, Mines, Industry
Regulation and Safety

Tenement Summary

Identifier : M 15/827	District : COOLGARDIE
Current Area : 259.65000 HA	Status : Live
Mark Out : 01/02/1995 10:35:00	Received : 03/02/1995 15:10:00
Term Granted : 21 Years	Lodging Office : COOLGARDIE
Commence : 12/06/2009	Expiry : 11/06/2030
Purpose :	Death :

Rent Status

Due for Year End 11/06/2025 :
Previous Amount Outstanding : \$0.00
Current Due : \$0.00
Rent for Year End 11/06/2026 : \$7,436.00

Expenditure Status

Expended Year End 11/06/2024 : UNDEREXPENDED \$7,273.34
Current Year (11/06/2025) Commitment : \$26,000.00

OWNERSHIP DETAILS

Current Holders

Name and Address	Shares
FOCUS MINERALS LTD TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888	90
FOCUS OPERATIONS PTY LTD TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888	10
Total Shares:	100

Holder Changes

Dealing	Status Date	From (Shares)	To (Shares)
Deemed Transfer 946H/934	Registered 14/08/2000 00:00:00	CROESUS MINING NL (100)	GOLDFAN LTD (80)
Deemed Transfer 553H/067	Registered 31/08/2006 08:30:00	CROESUS MINING NL (20)	GOLDFAN LTD (20)
Deemed Transfer 920H/067	Registered 10/11/2006 11:55:00	GOLDFAN LTD (100)	FOCUS MINERALS LTD (90)
Deemed Transfer 293925	Registered 24/06/2008 12:20:00	(MATADOR MINING PTY LTD (10)	MATADOR MINING PTY LTD (10) REDEMPTION MANAGEMENT PTY LTD (10)
A to A (Name) 299484	Recorded 05/09/2008 11:00:00	REDEMPTION MANAGEMENT PTY LTD (10)	FOCUS OPERATIONS PTY LTD (10)

Applicants on Receival

Name and Address	Shares
CROESUS MINING NL 39 PORTER ST, KALGOORLIE, WA, 6430	100
Total Shares:	100

DESCRIPTION DETAILS

Description

Block Type :

Effective From :

Locality : Rainbow

Datum : Datum situated at the north west corner of late surveyed M 15/275

Boundary : Thence ground applied for is identical to late surveyed M 15/363 including all Vacant Ground within

NOTE: Conversion of P 15/2919-2920 under Section 49)

Area :	Type	Dealing No	Start Date	Area
	Surveyed		11/10/2020	259.65000 HA
	Granted		12/06/2009	260.00000 HA
	Applied For		01/02/1995	260.00000 HA

RELATIONSHIPS

Relationships

Relationship	Dealing No	Dealing Status	Tenement ID	Tenement Status
Section 49	Conversion 58955	Finalised	P 15/2919	Dead
Section 49	Conversion 58955	Finalised	P 15/2920	Dead

State Agreement Conversions

Applicable Legislation	Effective Start	Effective End
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SURVEY DETAILS

Survey

Surveyed Area	Surveyed Date	Surveyor's Name	Field Book	Instruction Date	Project
259.65000 HA	11/10/2020	HAIGH, RE	266	11/06/2020	13837
Standard Plan		Diagram 87471			

GENERAL DETAILS

General

Objection Closing Date : 10/03/1995

Application Fee : \$165.40

File Reference : 6574/95

Survey Fee :

Receipt Number : 10003

Special Indicator

Special Indicator	Start	End
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SHIRE DETAILS

Shire

Shire	Shire No	Start	End	Area
COOLGARDIE SHIRE	1960	01/02/1995		259.65000 HA

NATIVE TITLE DETAILS

Native Title Referrals

DISCLAIMER: Complete Native Title Information is not available for this Tenement/Amalgamation/Ext of Term

Date Referred	Referral Type	Procedure	Current Status
12/01/1996	Tenement Application		NT Cleared

GRANT DETAILS

Recommendation

Recommended for : Grant 14/03/1995

Grant

Granted : 12/06/2009 Holder Notified : 12/06/2009 Licence/Lease issued :

Term

Term : 21 Years From : 12/06/2009 To : 11/06/2030

ENDORSEMENTS/CONDITIONS DETAILS

Endorsements and Conditions

#	ENDORSEMENTS	Start Date	End Date
1	The Lessee's attention is drawn to the provisions of the Aboriginal Heritage Act 1972 and any Regulations thereunder.	12/06/2009	

#	ENDORSEMENTS	Start Date	End Date
2	The Lessee's attention is drawn to the Environmental Protection Act 1986 and the Environmental Protection (Clearing of Native Vegetation) Regulations 2004, which provides for the protection of all native vegetation from damage unless prior permission is obtained.	12/06/2009	
#	CONDITIONS	Start Date	End Date
1	Survey.	12/06/2009	
2	All surface holes drilled for the purpose of exploration are to be capped, filled or otherwise made safe immediately after completion.	12/06/2009	
3	All disturbances to the surface of the land made as a result of exploration, including costeans, drill pads, grid lines and access tracks, being backfilled and rehabilitated to the satisfaction of the Environmental Officer, Department of Mines and Petroleum (DMP). Backfilling and rehabilitation being required no later than 6 months after excavation unless otherwise approved in writing by the Environmental Officer, DMP.	12/06/2009	
4	All waste materials, rubbish, plastic sample bags, abandoned equipment and temporary buildings being removed from the mining tenement prior to or at the termination of exploration program.	12/06/2009	
5	Unless the written approval of the Environmental Officer, DMP is first obtained, the use of drilling rigs, scrapers, graders, bulldozers, backhoes or other mechanised equipment for surface disturbance or the excavation of costeans is prohibited. Following approval, all topsoil being removed ahead of mining operations and separately stockpiled for replacement after backfilling and/or completion of operations.	12/06/2009	
6	The lessee submitting a plan of proposed operations and measures to safeguard the environment to the Director, Environment, DMP for his assessment and written approval prior to commencing any developmental or productive mining or construction activity.	12/06/2009	
7	The prior written consent of the Minister responsible for the Mining Act 1978 being obtained before commencing any mining activities on Water Reserve 6630.	12/06/2009	
8	The rights of ingress to and egress from Miscellaneous Licence 15/130 and 15/177 being at all times preserved to the licensee and no interference with the purpose or installations connected to the licence.	12/06/2009	
9	Mining on any road, road verge or road reserve being confined to below a depth of 15 metres from the natural surface.	12/06/2009	
10	No interference with the transmission line or the installations in connection therewith, and the rights of ingress to and egress from the facility being at all times preserved to the owners thereof.	12/06/2009	
	Consent to Mine on Storage of Explosives Reserve 3867 granted on 12/06/2009 subject to the following condition:-	12/06/2009	
11	In the event of Storage of Explosives Reserve 3867 being utilized for storage and/or manufacture of explosives; <ul style="list-style-type: none"> mining on the reserve being confined to below a depth of 15 metres from the natural surface. no mining whatsoever being conducted within such distance of the explosives storage area within the reserve as may be determined by the Chief Inspector of Explosives, DMP. all excavations and other disturbances to the surface of the land within the reserve made in the course of prospecting being filled in to the satisfaction of the Environmental Officer, DMP. 	12/06/2009	
12	The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the document titled: <ul style="list-style-type: none"> "Programme of Work entitled "Low Impact Mining Operation - Scraping and Detecting" on M15/827" dated 18 June 2009 signed by Mr C McCormick - Focus Minerals Ltd and retained on Department of Mines and Petroleum File No. 6574/95Vol01; "Programme of Work entitled: Low Impact Mining Operation on M15/827" (Reg ID 26559) dated 29 March 2010 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. 6574/95Vol01; (MPMCP Reg ID 121063) "CNX Material Stockpiles" dated 14 November 023 and retained on Department of Energy, Mines, Industry Regulation and Safety File No. EARS-MP-121063 as Object ID A69908638 <p>Where a difference exists between the above document and the following conditions, then the following conditions shall prevail.</p>	05/03/2024	
	The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the document titled:	23/04/2010	04/03/2024

#	CONDITIONS	Start Date	End Date
	<ul style="list-style-type: none"> "Programme of Work entitled "Low Impact Mining Operation - Scraping and Detecting" on M15/827" dated 18 June 2009 signed by Mr C McCormick - Focus Minerals Ltd and retained on Department of Mines and Petroleum File No. 6574/95Vol01; "Programme of Work entitled: Low Impact Mining Operation on M15/827" (Reg ID 26559) dated 29 March 2010 signed by Chuck McCormick and retained on Department of Mines and Petroleum File No. 6574/95Vol01 <p>Where a difference exists between the above document and the following conditions, then the following conditions shall prevail:</p> <p>The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the document titled:</p> <ul style="list-style-type: none"> "Programme of Work entitled "Low Impact Mining Operation - Scraping and Detecting" on M15/827" dated 18 June 2009 signed by Mr C McCormick - Focus Minerals Ltd and retained on Department of Mines and Petroleum File No. 6574/95Vol01. 		
	The construction and operation of the project and measures to protect the environment being carried out generally in accordance with the document titled:	05/08/2009	22/04/2010
13	The development and operation of the project being carried out in such a manner so as to create the minimum practicable disturbance to the existing vegetation and natural landform.	23/04/2010	
14	All topsoil being removed ahead of all mining operations from sites such as pit areas, waste disposal areas, ore stockpile areas, pipeline, haul roads and new access roads and being stockpiled for later respreading or immediately respread as rehabilitation progresses.	23/04/2010	
15	At the completion of operations, all buildings and structures being removed from site or demolished and buried to the satisfaction of the Director, Environment Division, DMP.	23/04/2010	
16	All rubbish and scrap is to be progressively disposed of in a suitable manner.	23/04/2010	
17	Any alteration or expansion of operations within the lease boundaries beyond that outlined in the above document(s) not commencing until a plan of operations and a programme to safeguard the environment are submitted to the Director, Environment, DMP for his assessment and until his written approval to proceed has been obtained.	23/04/2010	
18	Topsoil and vegetation to be removed ahead of mining operations and appropriately stockpiled for later respreading or immediately respread as rehabilitation progresses.	05/03/2024	
19	All reasonable and practicable measures will be taken to prevent the spread of dieback and weeds.	05/03/2024	
20	All reasonable measures will be taken to ensure all hydrocarbons, environmentally hazardous chemicals, process water and other environmentally hazardous substances or waste are stored and managed in a manner to prevent discharges to the environment.	05/03/2024	
21	All hydrocarbon spills or chemical spills will be contained and cleaned up within a timely manner.	05/03/2024	
22	The Lessee taking all reasonable and practicable measures to prevent or minimise the generation of dust from mining operations.	05/03/2024	
23	All mining related landforms and disturbances must be rehabilitated, in a progressive manner where practicable, to ensure they are safe, stable, non-polluting, integrated with the surrounding landscape and support self-sustaining, functional ecosystems or alternative agreed outcome to the satisfaction of the Executive Director, Resource and Environmental Compliance, Department of Energy, Mines, Industry Regulation and Safety.	05/03/2024	
24	All waste materials, rubbish, plastic sample bags, abandoned equipment and temporary buildings being removed from the mining tenement prior to or at the termination of the operation.	05/03/2024	
25	An annual environmental report is to be submitted to the Executive Director, Resource and Environmental Compliance, Department of Energy, Mines, Industry Regulation and Safety, outlining the project operations, minesite environmental management and rehabilitation work undertaken in the previous 12 months and the proposed operations, environmental management plans and rehabilitation programs for the next 12 months. This report is to be submitted each year in: <ul style="list-style-type: none"> January 	05/03/2024	
26	A Mine Closure Plan is to be submitted in the Annual Environmental Reporting month specified in tenement conditions in the year specified below, unless otherwise directed by the Executive Director Resource and Environmental Compliance Division, Department of Energy, Mines, Industry Regulation and Safety. The Mine Closure Plan is to be prepared in accordance with the Department's "Guidelines for Preparing Mine Closure Plans": <ul style="list-style-type: none"> 2024 	05/03/2024	

DEALINGS DETAILS

Dealings**Transfer 946H/934****Transfer 553H/067****Transfer 920H/067****Transfer 293925****Application to Amend 310866****Application to Amend 423370****Application to Amend 448467****Application to Amend 448468****Application to Amend 491515****Encumbrances**

Transfers 390H/001 and 391H/001 were registered on 14 Aug 2000 against P 15/2920 and P 15/2919. Pursuant to Section S49 the applicant details have been amended.

Transfer's 553H/067 and 554H/067 were registered on 31 Aug 2006 against P's 15/2919 and 15/2920. Pursuant to Section 49 the applicant details have been amended.

Transfers 920H/067 to 923H/067 were registered on 10 Nov 2006 against P's 15/2919 -2920. Pursuant to Section 49 the applicant details have been amended.

Transfer 289744 was registered on 30 Jun 2008 against P 77/3310. Pursuant to Section 120AA the applicant details have been amended. Transfers 293925 and 293926 were registered on 24 Jun 2008 against P's 15/2919 and 15/2920. Pursuant to Section 49 the applicant details have been amended.

Lodged: 09:30 27 January 2009
 Amending: Address
 From: FOCUS OPERATIONS PTY LTD, 41 BROOKMAN STREET, KALGOORLIE, WA, 6430
 To: FOCUS OPERATIONS PTY LTD, C/- KEN MAGUIRE, 9 CHUDLEIGH STREET, FREMANTLE, WA, 6160
 RECORDED: 09:30 27 January 2009

Lodged: 09:55 16 May 2013
 REJECTED: 09:55 16 May 2013

Lodged: 15:32 09 June 2014
 Amending: Address
 From: FOCUS OPERATIONS PTY LTD, C/- KEN MAGUIRE, 9 CHUDLEIGH STREET, FREMANTLE, WA, 6160
 To: FOCUS OPERATIONS PTY LTD, C/-MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931
 RECORDED: 15:32 09 June 2014

Lodged: 15:32 09 June 2014
 Amending: Address
 From: FOCUS MINERALS LTD, C/- ATTN: KEN MAGUIRE: TENEMENT ADMINISTRATION, 9 CHUDLEIGH STREET, FREMANTLE, WA, 6160
 To: FOCUS MINERALS LTD, C/- MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931
 RECORDED: 15:32 09 June 2014

Lodged: 08:30 01 August 2016
 Amending: Address (Including DTC Details)
 From: Principal Place of Business : FOCUS OPERATIONS PTY LTD, SAME AS CORRESPONDENCE and DTC :FOCUS OPERATIONS PTY LTD, C/-MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931
 To: Principal Place of Business : FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400 and DTC :FOCUS OPERATIONS PTY LTD, C/-

AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, 089309 0400

RECORDED: 08:30 01 August 2016

Application to Amend 491559

Lodged: 13:38:30 01 August 2016
 Amending: Address (Including DTC Details)
 From: Principal Place of Business : FOCUS MINERALS LTD, SAME AS CORRESPONDENCE and DTC :FOCUS MINERALS LTD, C/- MCMAHON MINING TITLE SERVICES PTY LTD, PO BOX 592, MAYLANDS, WA, 6931
 To: Principal Place of Business : FOCUS MINERALS LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400 and DTC :FOCUS MINERALS LTD, AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400

RECORDED: 13:38:30 01 August 2016

Application to Amend 559748

Lodged: 16:27:46 02 August 2019
 Amending: Address (Including DTC Details)
 From: Principal Place of Business : FOCUS MINERALS LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400 and DTC :FOCUS MINERALS LTD, AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400
 To: Principal Place of Business : FOCUS MINERALS LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA DC, WA, 6947, reception@austwidemining.com.au, 089309 0400 and DTC :FOCUS MINERALS LTD, TENEMENT AND LAND ADMINISTRATION, PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 92157888

RECORDED: 16:27:46 02 August 2019

Application to Amend 559750

Lodged: 16:27:46 02 August 2019
 Amending: Address (Including DTC Details)
 From: Principal Place of Business : FOCUS OPERATIONS PTY LTD, LEVEL 2, 159 ADELAIDE TERRACE, EAST PERTH, WA, 6004, EAST PERTH, WA, 6004, tenements@focusminerals.com.au, 92157888 and DTC :FOCUS OPERATIONS PTY LTD, FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, 089309 0400
 To: Principal Place of Business : FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309 0400 and DTC :FOCUS OPERATIONS PTY LTD, TENEMENT AND LAND ADMINISTRATION,

n to Amend 577037	Lodged:	16:21:41 02 August 2019
	Amending:	Address (Including DTC Details)
	From:	FOCUS OPERATIONS PTY LTD, C/- AUSTWIDE MINING TITLE MANAGEMENT PTY LTD, PO BOX 1434, WANGARA, WA, 6947, reception@austwidemining.com.au, 089309
	To:	FOCUS OPERATIONS PTY LTD, LEVEL 2 ADELAIDE TERRACE, EAST PERTH, WA, tenements@focusminerals.com.au, 921578
n to Amend 577038	RECORDED:	16:27:47 02 August 2019
	Lodged:	12:56:22 30 April 2020
	Amending:	Address (Including DTC Details)
	From:	FOCUS MINERALS LTD, TENEMENT AND LAND ADMINISTRATION, PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 921578
n to Amend 577038	To:	FOCUS MINERALS LTD, TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 921578
	RECORDED:	12:56:22 30 April 2020
	Lodged:	12:56:22 30 April 2020
	Amending:	Address (Including DTC Details)
n to Amend 700011	From:	FOCUS OPERATIONS PTY LTD, TENEMENTS AND LAND ADMINISTRATION, PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 921578
	To:	FOCUS OPERATIONS PTY LTD, TENEMENTS AND LAND (COOLGARDIE), PO BOX 3233, EAST PERTH, WA, 6892, tenements@focusminerals.com.au, 921578
	RECORDED:	12:56:22 30 April 2020
	Lodged:	12:45:01 28 March 2024

					To:	FOCUS MINERALS LTD, LEVEL 5, 8 ST GEORGES TERRACE, PERTH, WA, 6000, tenements@focusminerals.com.au, 92157888				
					RECORDED:	12:45:01 28 March 2024				

BOND DETAILS

Bond	Surety	Amount	Bond date	Bond status	Bond status date
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RENT DETAILS

Rent Payments

Type	Year	Receipt Date	Payment No	Receipt No	MR Lodged	Amount	Rental Area	Effective Date	Amount Due	Discrepancy
Payment	2025	18/06/2024	3769341243	10596694	OL	\$6,760.00	259.65000 HA	11/10/2020	\$6,760.00	\$0.00
Payment	2024	13/06/2023	2079801870	10370850	OL	\$6,240.00				
Payment	2023	27/06/2022	4387417068	10271702	OL	\$5,720.00	259.65000 HA	11/10/2020	\$5,720.00	\$0.00
Payment	2022	08/06/2021	6474112403	10200135	OL	\$5,200.00	259.65000 HA	11/10/2020	\$5,200.00	\$0.00
Payment	2021	12/06/2020	1530222106	10148998	OL	\$5,148.00	259.65000 HA	11/10/2020	\$5,148.00	\$0.00
Payment	2020	31/05/2019	4488126584	10098822	OL	\$4,862.00	259.65000 HA	11/10/2020	\$4,862.00	\$0.00
Payment	2019	01/06/2018	2500213166	Transfer From FOCUS OPRTNS ..	OL	\$4,576.00	259.65000 HA	11/10/2020	\$4,576.00	\$0.00
Payment	2018	24/05/2017		MT-210011047144- EF	OL	\$4,433.00	259.65000 HA	11/10/2020	\$4,433.00	\$0.00
Payment	2017	20/05/2016		MT-210010597576- EF	OL	\$4,290.00	259.65000 HA	11/10/2020	\$4,290.00	\$0.00
Payment	2016	15/06/2015		MT-210010276803- EF	OL	\$4,186.00	259.65000 HA	11/10/2020	\$4,186.00	\$0.00
Refund	2015	28/03/2017		(REFUND) MT-210010181932- EF	PE	\$4,082.00	259.65000 HA	11/10/2020	\$4,082.00	\$0.00
Payment	2015	13/06/2014		MT-210010181932- EF	OL	\$4,082.00				
Payment	2015	28/05/2014		MT-210010176440- EF	OL	\$4,082.00				
Payment	2014	12/06/2013		06-124936	PE	\$4,004.00	259.65000 HA	11/10/2020	\$4,004.00	\$0.00
Payment	2013	05/06/2012		11364	CO	\$3,900.00	259.65000 HA	11/10/2020	\$3,900.00	\$0.00
Payment	2012	01/06/2011		10088	CO	\$4,147.00	259.65000 HA	11/10/2020	\$4,147.00	\$0.00
Payment	2011	03/06/2010		8396	CO	\$4,061.20	259.65000 HA	11/10/2020	\$4,061.20	\$0.00
Payment	2010	10/06/2009		6447	CO	\$241.80	259.65000 HA	11/10/2020	\$2,659.80	\$0.00
Payment	2010	03/02/1995		10003	CO	\$2,418.00				

EXPENDITURE/EXEMPTION DETAILS

Expenditure/Exemptions

Year	Minimum Expenditure	Expenditure Lodged	Total Expenditure	Exemption Amount	Exemption Lodged	Exemption Number	Exemption Status	Outcome Date
2025	\$26,000.00							
2024	\$26,000.00	12/08/2024	\$18,726.66	\$26,000.00	09/08/2024	711988	Recorded	
2023	\$26,000.00	11/08/2023	\$125,645.00					
2022	\$26,000.00	11/08/2022	\$42,530.00					
2021	\$26,000.00	10/08/2021	\$37,258.00					
2020	\$26,000.00	10/08/2020	\$16,285.00	\$26,000.00	10/08/2020	583905	Granted	05/10/2020
2019	\$26,000.00	12/08/2019	\$56,979.18					
2018	\$26,000.00	24/07/2018	\$27,836.94					
2017	\$26,000.00	19/06/2017	\$31,696.00					

Year	Minimum Expenditure	Expenditure Lodged	Total Expenditure	Exemption Amount	Exemption Lodged	Exemption Number	Exemption Status	Outcome Date
2016	\$26,000.00	04/07/2016	\$41,800.00					
2015	\$26,000.00	15/07/2015	\$31,445.00					
2014	\$26,000.00	25/07/2014	\$16,973.00	\$26,000.00	08/08/2014	452701	Granted	31/12/2014
2013	\$26,000.00	24/07/2013	\$61,863.08					
2012	\$26,000.00	03/07/2012	\$267,071.00					
2011	\$26,000.00	18/07/2011	\$26,959.00					
2010	\$26,000.00	27/07/2010	\$29,233.00					

Expenditure Details

Year	Lodged	Exploration Activities	Mining Activities	Aboriginal Survey	Rent/Rates	Admin.	Prospecting	Total Expenditure
2024	12/08/2024	\$0.00	\$1,997.15	\$0.00	\$13,584.51	\$3,145.00	\$0.00	\$18,726.66
2023	11/08/2023	\$100,549.00	\$3,771.00	\$4,878.00	\$12,332.00	\$4,115.00	\$0.00	\$125,645.00
2022	11/08/2022	\$7,848.00	\$13,644.00	\$7,321.00	\$11,041.00	\$2,676.00	\$0.00	\$42,530.00
2021	10/08/2021	\$23,922.00	\$0.00	\$0.00	\$10,822.00	\$2,514.00	\$0.00	\$37,258.00
2020	10/08/2020	\$3,881.00	\$0.00	\$0.00	\$10,304.00	\$2,100.00	\$0.00	\$16,285.00
2019	12/08/2019	\$44,677.63	\$0.00	\$0.00	\$9,701.55	\$2,600.00	\$0.00	\$56,979.18
2018	24/07/2018	\$13,243.00	\$0.00	\$0.00	\$9,393.94	\$5,200.00	\$0.00	\$27,836.94
2017	19/06/2017	\$17,407.00	\$0.00	\$0.00	\$9,089.00	\$5,200.00	\$0.00	\$31,696.00
2016	04/07/2016	\$27,965.00	\$0.00	\$0.00	\$8,242.00	\$5,593.00	\$0.00	\$41,800.00
2015	15/07/2015	\$18,221.00	\$0.00	\$0.00	\$7,984.00	\$5,240.00	\$0.00	\$31,445.00
2014	25/07/2014	\$4,127.00	\$0.00	\$0.00	\$7,646.00	\$5,200.00	\$0.00	\$16,973.00
2013	24/07/2013	\$49,455.88	\$0.00	\$0.00	\$7,207.20	\$5,200.00	\$0.00	\$61,863.08
2012	03/07/2012	\$254,828.00	\$0.00	\$0.00	\$7,043.00	\$5,200.00	\$0.00	\$267,071.00
2011	18/07/2011	\$15,004.00	\$0.00	\$0.00	\$6,755.00	\$5,200.00	\$0.00	\$26,959.00
2010	27/07/2010	\$17,146.00	\$0.00	\$0.00	\$6,887.00	\$5,200.00	\$0.00	\$29,233.00

COMBINED REPORTING DETAILS

C Number : 93/2007
Project : Coolgardie

Reporting Date : 28/02
Affecting Period : 01/01 - 31/12

Active Tenements:

M 15/23 (11/10/2007)	M 15/150 (11/10/2007)	M 15/154 (11/10/2007)
M 15/237 (10/03/2011)	M 15/277 (11/10/2007)	M 15/365 (11/10/2007)
M 15/384 (11/10/2007)	M 15/385 (11/10/2007)	M 15/410 (11/10/2007)
M 15/411 (11/10/2007)	M 15/412 (11/10/2007)	M 15/515 (11/10/2007)
M 15/595 (11/10/2007)	M 15/630 (11/10/2007)	M 15/636 (11/10/2007)
M 15/645 (11/10/2007)	M 15/646 (11/10/2007)	M 15/660 (11/10/2007)
M 15/662 (11/10/2007)	M 15/675 (06/07/2009)	M 15/711 (11/10/2007)
M 15/761 (11/10/2007)	M 15/770 (09/01/2008)	M 15/781 (24/06/2009)
M 15/791 (11/10/2007)	M 15/827 (24/06/2009)	M 15/852 (24/06/2009)
M 15/857 (24/06/2009)	M 15/871 (11/10/2007)	M 15/877 (24/06/2009)
M 15/958 (11/10/2007)	M 15/966 (15/04/2010)	M 15/981 (24/06/2009)
M 15/1114 (11/10/2007)	M 15/1153 (21/11/2007)	M 15/1262 (15/04/2010)
M 15/1293 (11/10/2007)	M 15/1294 (11/10/2007)	M 15/1341 (05/11/2010)
M 15/1357 (05/11/2010)	M 15/1358 (05/11/2010)	M 15/1359 (05/11/2010)
M 15/1384 (11/10/2007)	M 15/1422 (11/10/2007)	M 15/1432 (18/04/2008)
M 15/1433 (11/10/2007)	M 15/1434 (11/10/2007)	M 15/1444 (15/04/2010)
M 15/1461 (15/04/2010)	M 15/1760 (11/10/2007)	M 15/1788 (09/08/2010)
M 15/1789 (04/05/2011)	M 15/1793 (15/04/2010)	P 15/5159 (28/10/2010)
P 15/5702 (19/07/2019)	P 15/5703 (19/07/2019)	P 15/5704 (19/07/2019)
P 15/5712 (23/02/2017)	P 15/5717 (13/02/2013)	P 15/5939 (26/07/2021)
P 15/5964 (23/02/2017)	P 15/5966 (23/02/2017)	P 15/5967 (23/02/2017)
P 15/5968 (23/02/2017)	P 15/5971 (23/02/2017)	P 15/5972 (23/02/2017)
P 15/6002 (19/09/2016)	P 15/6033 (23/02/2017)	P 15/6102 (21/10/2020)
P 15/6118 (18/10/2018)	P 15/6119 (18/10/2018)	P 15/6120 (18/10/2018)
P 15/6121 (18/10/2018)	P 15/6122 (18/10/2018)	P 15/6123 (18/10/2018)

Active Tenements:

P 15/6176 (21/10/2020)	P 15/6177 (21/10/2020)	P 15/6178 (21/10/2020)
P 15/6251 (17/04/2019)	P 15/6252 (17/04/2019)	P 15/6253 (17/04/2019)
P 15/6254 (17/04/2019)	P 15/6256 (17/04/2019)	P 15/6257 (17/04/2019)
P 15/6335 (08/12/2021)	P 15/6541 (08/12/2021)	P 15/6598 (26/04/2022)
P 15/6605 (01/10/2021)	P 15/6633 (06/07/2023)	P 15/6639 (06/07/2023)
P 15/6667 (11/01/2023)	P 15/6670 (14/06/2022)	P 15/6777 (21/09/2023)
P 15/6785 (14/05/2024)	P 15/6868 (30/10/2024)	

End of Search



Appendix B: Biological surveys



**CNX Three Mile Hill
Coolgardie Gold Project**

Biological Surveys

**Prepared for
Focus Minerals Limited**

June 2022

● people ● planet ● professional

Document Reference	Revision	Prepared by	Reviewed by	Admin Review	Submitted to Client	
					Copies	Date
4794AA_Rev0	Internal Draft	LC, JW	SC, EW, ML	LI	-	28/04/2022
4794AA_Rev1	Client Draft	360 Environmental	Focus Minerals Limited	-	1 electronic	02/05/2022
4794AA_Rev2	Final	360 Environmental	Focus Minerals Limited	LI	1 electronic	20/06/2022

Disclaimer

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Executive Summary

Focused Mineral Limited commissioned 360 Environmental (part of SLR Consulting) to undertake a detailed flora and vegetation survey and basic vertebrate fauna and habitat survey at selected sites within the Three Mile Mine Project, Coolgardie. The Survey Area consists of four defined survey areas adjacent to the townsite of Coolgardie, Western Australia, and covers approximately 1360.72 ha.

The purpose of the assessment was to identify key biological values to inform decisions regarding the specific lease areas for proposed construction sites within the Survey Area.

Flora and Vegetation

The flora desktop assessment identified 90 conservation significant taxa occurring within 50 km of the Survey Area, including three Threatened taxa (*Gastrolobium graniticum*, *Tetratheca spenceri* and *Thelymitra stellata*). A pre-survey likelihood of occurrence assessment was undertaken and determined 20 taxa as having a high likelihood of occurrence, 18 taxa as having a medium likelihood of occurrence, and 51 taxa as having a low likelihood of occurrence. Following the survey, two taxa retained a high likelihood of occurrence.

The detailed flora and vegetation survey was undertaken in between the 11 - 15 October 2021 (Trip 1) and 15 - 19 November 2021 (Trip 2), with the survey recording the floristic composition and vegetation types from 74 quadrats, 22 relevés and 91 mapping notes. A total of 149 taxa were recorded from 78 genera across 35 families.

No Threatened flora taxa pursuant to the Environment Protection and Biodiversity Conservation Act 1999 and/or gazetted as Threatened pursuant to the Biodiversity and Conservation Act 2016 were recorded during the survey.

One Priority listed flora taxon was identified; a single population of *Austrostipa blackii* (P3) consisting of approximately 10 individuals was recorded within a single quadrat. The vegetation it was recorded in was heavily surveyed and no further populations were recorded.

Thirteen introduced taxa were recorded in the Survey Area, of which one, the Common Prickly Pear (**Opuntia stricta*) is listed as a Declared Pest, and a Weed of National Significance.

Ten vegetation types were described and mapped within the Survey Area. Vegetation in the Survey Area was representative of existing broad scale vegetation, as a well as soil and land system mapping for the area.

Vegetation condition ranged from Excellent to Completely Degraded with the majority considered to be in Excellent condition. Evidence of disturbance across the Survey Area included mine works, cattle grazing, vehicle tracks, weeds, and litter.

Vertebrate Fauna

The fauna desktop assessment identified 20 conservation significant species occurring within 50 km of the Coolgardie Survey Area comprising 17 bird species and 3 mammal species.

Fauna habitat mapping was undertaken based on a combination of aerial imagery, field observations and fauna habitat assessment data. Five fauna habitats were mapped within the Survey Area, of which the *Eucalyptus* Woodland and the *Acacia* Shrubland habitat types represent the most value to conservation significant fauna and overall fauna assemblage.

The basic terrestrial vertebrate fauna survey was undertaken in between the 11 – 15 October 2021 (Trip 1) and 15 – 19 November 2021 (Trip 2). This is considered suitable timing to survey for birds, mammals, reptiles, and summer breeding amphibians, but outside the optimal survey period for autumn and winter breeding amphibians. A total of 61 fauna taxa from 33 families comprising of: 42 birds from 21 families, ten mammals from seven families and nine reptiles from five families. No amphibian taxa were recorded.

One conservation significant taxon, the Western Quoll, Chuditch (*Dasyurus geoffroii fortis*) which is listed as Vulnerable under the Biodiversity Conservation Act and Environment Protection and Biodiversity Conservation Act, was recorded within the Survey Area. Chuditch scat was observed during the field survey.

Seven introduced mammal taxa were recorded during the survey, Goat (*Capra hircus*), European Cattle (*Bos primigenius taurus*), Dog/Dingo (*Canis familiaris*), Red Fox (*Vulpes vulpes*), Horse (*Equus caballus*), Cat (*Felis catus*) and Rabbit (*Oryctolagus cuniculus*).

Although outside the scope of this report, potential habitat for Arid Bronze Azure Butterfly (*Ogyris subterrestris petrina*), which is listed as Critically Endangered under the Biodiversity Conservation Act and Environment Protection and Biodiversity Conservation Act, and the Inland Hairstreak butterfly (*Jalmenus aridus*), which is listed as Priority 1 by the Department of Biodiversity, Conservation and Attractions, was observed within the Survey Area.

Abbreviations

Abbreviations used through the report are described below in Table 1.

Table 1: Abbreviations

Abbreviation	Description
BAM Act	Biosecurity and Agriculture Management Act 2007
BC Act	Biodiversity Conservation Act 2016
BoM	Bureau of Meteorology
CD	Conservation Dependent Fauna
CR	Critically Endangered
DAWE	Department of Agriculture, Water, and the Environment
DBCA	Department of Biodiversity, Conservation and Attractions
DoE	Department of Environment
DP	Declared Pest
DWER	Department of Water and Environmental Regulation
EIA	Environmental Impact Assessment
EN	Endangered
EP Act	Environmental Protection Act 1986
EPA	Environmental Protection Authority
EPBC Act	Environment Protection Biodiversity and Conservation Act 1999
ESA	Environmentally Sensitive Area
FML	Focus Minerals Limited
GDE	Groundwater Dependent Ecosystem
IBRA	Interim Biogeographic Regionalisation for Australia
IBSA	Index of Biodiversity Surveys for Assessments
MI	Migratory
MNES	Matters of National Environmental Significance
NVIS	National Vegetation Information System
OS	Other Specially Protected Fauna
P	Priority
PEC	Priority Ecological Community
PMST	Protected Matters Search Tool
T	Threatened
TEC	Threatened Ecological Community
TPFL	Threatened and Priority Flora Database
VU	Vulnerable
WAH	Western Australian Herbarium

Abbreviation	Description
WAM	Western Australian Museum
WoNS	Weeds of National Significance

Table of Contents

1	Introduction.....	1
1.1	The Project.....	1
1.2	Objectives and Scope	1
2	Background.....	2
2.1	Protection of Flora, Vegetation and Fauna	2
2.2	Existing Environment	3
3	Methods.....	7
3.1	Desktop Assessment	7
3.2	Field Survey Effort	9
3.3	Flora and Vegetation.....	10
3.4	Vertebrate Fauna	13
4	Results.....	14
4.1	Limitations	14
4.2	Flora and Vegetation.....	16
4.3	Vertebrate Fauna	28
5	Discussion	45
5.1	Flora and Vegetation.....	45
5.2	Vertebrate Fauna	47
5.3	Invertebrates	51
6	Conclusion	53
7	Report Disclaimer	54
8	References	55

List of Tables

Table 1: Abbreviations.....	iii
Table 2: Broad Vegetation Types within the Survey Area and their Representation at the State, Regional and Local Levels (Government of Western Australia, 2019).....	5
Table 3 Database Searches of the Survey Area	8
Table 4 Likelihood of Occurrence Criteria.....	9
Table 5: Limitations and Constraints Associated with the Survey	14
Table 6: Introduced Flora Species within the Survey Area.....	18
Table 7 Area (ha) covered by each vegetation condition category within the Survey Area	19
Table 8: Vegetation Types Occurring within the Survey Area.....	21
Table 9: Species Richness Indicators	28
Table 10: Fauna Habitat Types within the Survey Area	29
Table 11: Overview of Vertebrate Fauna Species Recorded	34
Table 12: Conservation Significant Fauna Likelihood of Occurrence	37

List of Plates

Plate 1: <i>Austrostipa blackii</i> (P3)	18
Plate 2: Scat of Western Quoll, Chuditch (<i>Dasyurus geoffroii fortis</i>)	35

List of Graphs

Graph 1: Long term and 2021 monthly weather and climate data for Coolgardie and Koorarawalyee	3
Graph 2: Flora Species Accumulation Curve (Sample rarefaction)	27

List of Figures (out of text)

Figure 1: Survey Area	
Figure 2: Soil Landscapes and Land Systems, and Hydrography	
Figure 3: Broad Vegetation Types	
Figure 4: Conservation Areas	
Figure 5: Survey Effort	
Figure 6: Threatened and Priority Flora Locations Identified by DBCA Database Searches	
Figure 7: Vegetation Types and Priority Flora locations within the Survey Area	
Figure 8: Vegetation Condition within the Survey Area	
Figure 9: DBCA Threatened and Priority Fauna Records	
Figure 10: Fauna Habitat and Conservation Significant Fauna Records	

List of Appendices

Appendix A Flora and Fauna Literature Review	
Appendix B Flora and Fauna Database Searches	
Appendix C Coolgardie Flora Likelihood Table	
Appendix D Inventory of Vascular Flora	
Appendix E Flora Site Data	
Appendix F Fauna Habitat Assessments	
Appendix G Fauna Inventory	

1 Introduction

1.1 The Project

Focus Mineral Limited (FML) commissioned 360 Environmental (part of SLR Consulting) to undertake a detailed flora, vegetation, and basic terrestrial vertebrate fauna assessment to support the environmental and planning approvals for proposed expansions to the FML mining operation in Coolgardie Western Australia (the Project).

The 1360.72 ha FML Coolgardie (the Survey Area) is located approximately 40 km southwest of Kalgoorlie in the Coolgardie bioregion of Western Australia. The Survey Area includes multiple polygons representing potential deposits, waste pits, haul roads, and associated infrastructure.

1.2 Objectives and Scope

The purpose of the biological survey was to delineate key flora, vegetation and terrestrial vertebrate fauna values within the Survey Area and identify potential environmental sensitivities that may impact The Project.

The scope of works includes:

- Undertake a desktop assessment including relevant database searches and a literature review to compile and summarise existing records of flora, vegetation, and terrestrial vertebrate fauna (including conservation significant species and communities) within the vicinity of the Survey Area
- Undertake a detailed flora and vegetation survey in accordance with EPA Technical Guidance (Environmental Protection Authority, 2016)
- Undertake targeted searching for flora of conservation significance within the Survey Area
- Undertake a basic terrestrial vertebrate fauna survey in accordance with EPA Technical Guidance (Environmental Protection Authority, 2020)
- Identify and assess conservation significant terrestrial vertebrate fauna or suitable conservation significant terrestrial vertebrate fauna habitat potentially occurring within the Survey Area
- Produce a technical report based on the findings of the above
- Supply a geospatial data package prepared in accordance with IBSA requirements.

This report presents the outcomes of the FML Coolgardie flora, vegetation, and terrestrial vertebrate fauna assessment undertaken to support the above objectives.

2 Background

2.1 Protection of Flora, Vegetation and Fauna

Western Australian flora and fauna is protected formally and informally by legislative and non-legislative measures:

Legislative measures:

- *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act)
- *WA Biodiversity Conservation Act 2016* (BC Act)
- *WA Environmental Protection Act 1986* (EP Act)
- *WA Biosecurity and Agriculture Management Act 2007* (BAM Act).

Non-legislative measures:

- WA Department of Biodiversity Conservation and Attractions (DBCA) Priority lists for fauna, flora, and ecological communities
- Weeds of National Significance (WoNS)
- Recognition of locally significant populations by DBCA.

These protection mechanisms are supported by guidance documents published by the Environmental Protection Authority (EPA) and Department of Agriculture, Water, and the Environment (DAWE):

- *Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment* (Environmental Protection Authority, 2016)
- *Technical Guidance – Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment* (Environmental Protection Authority, 2020)
- *Matters of National Environmental Significance Significant impact guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999* (Department of the Environment, 2013)
- *Survey Guidelines for Australia's Threatened Mammals* (Department of Sustainability Environment Population and Communities, 1999)
- *Survey Guidelines for Australia's Threatened Reptiles* (Department of Sustainability Environment Water Population and Communities, 2011)
- *Survey Guidelines for Australia's Threatened Birds Under the Environment Protection And Biodiversity Conservation Act 1999* (Department of the Environment Water Heritage and the Arts, 2010).

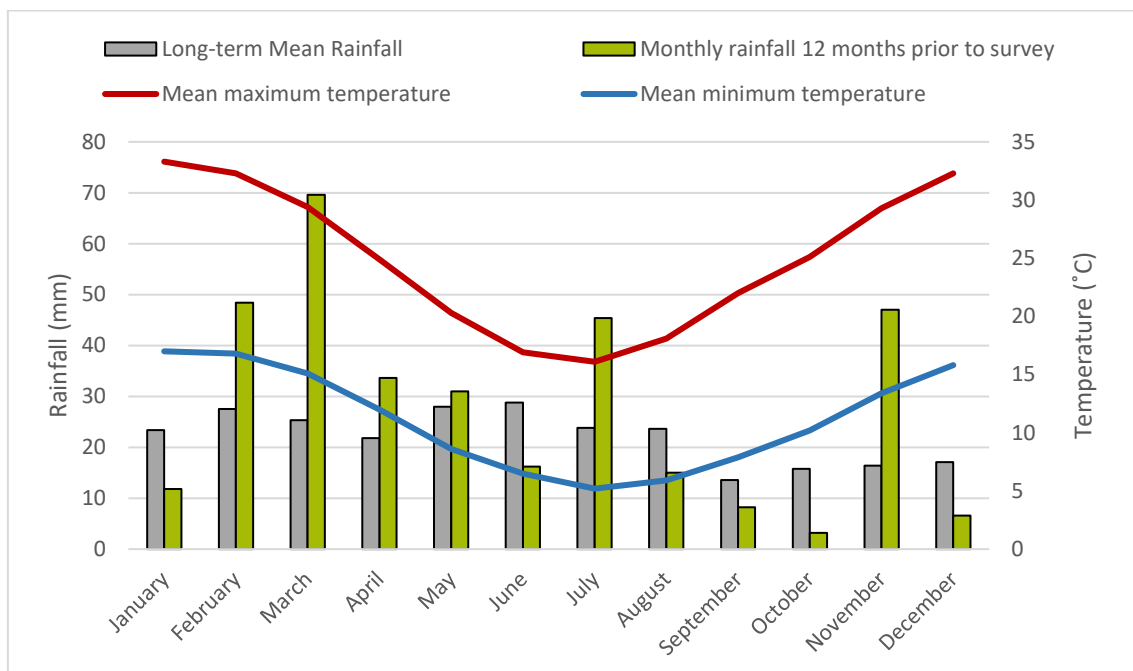
2.2 Existing Environment

2.2.1 Climate

The closest long-term Bureau of Meteorology weather station with a complete dataset is Coolgardie weather station (Station 012018) for climate data (i.e. temperature) and Koorarawalyee weather station (Station 012152) for rainfall data. The Coolgardie weather station is located approximately 75 km south of the Survey Area. Koorarawalyee weather station is located approximately 124 km southwest of the Survey Area.

The long-term mean minimum temperature for Coolgardie Weather Station ranges from 5.2°C (July) to 16.8°C (February) (1893 to 2020) and the long-term mean maximum temperature ranges from 16.1°C (July) to 33.3°C (January) (Graph 1) (Bureau of Meteorology, 2021).

The Koorarawalyee weather station recorded 336 mm of rainfall in the 12 months prior to the survey (October 2021 to November 2021), which is 66.4 mm above the long-term average of 269.6 for the same period (Bureau of Meteorology, 2021). In the three months prior to the survey (July 2021 to September 2021), 68.6 mm of rainfall was recorded, which is 7.6 mm above the long-term average of 61 mm for the same period (Bureau of Meteorology, 2021).



Graph 1: Long term and 2021 monthly weather and climate data for Coolgardie and Koorarawalyee

2.2.2 Interim Biogeographic Regionalisation of Australia

The Interim Biogeographic Regionalisation of Australia (IBRA) divides Australia into 89 bioregions based on major biological, geographical, and geological attributes. These bioregions are subdivided into 419 subregions as part of a refinement of the IBRA framework (Department of the Environment and Energy, 2016). The Survey Area occurs within the Coolgardie bioregion and Eastern Goldfield (COO3) subregion.

The Eastern Goldfield (COO3) subregion lies on the Yilgarn Cratons 'Eastern Goldfields Terrains'. The relief is subdued and comprises of gently undulating plains interrupted in the west with low hills and ridges of Archaean greenstones and in the east by a horst of Proterozoic basic granulite.

2.2.3 Soils and Land Systems

Soil landscapes and land system mapping of Western Australia describes broad soil and landscape characteristics from regional to local scales, ranging from 1:20,000 to 1:250,000 (Department of Primary Industries and Regional Development, 2018). The Survey Area occurs entirely within the BB5 land system, characterised by rocky ranges and hills of greenstones with basic igneous rocks as well as sandplains with brown calcareous loam (Figure 2) (Department of Primary Industries and Regional Development, 2018).

2.2.4 Hydrography

The Survey Area contains one small-permanent pool which is just south of Coolgardie-Esperance Highway, named Coolgardie Gorge. The Survey Area also contains four decommissioned deep abandoned mining pits which contain water and several minor watercourses that don't influence vegetation types present. The nearest major hydro geographical feature is a seasonally filled salt lake approximately 6 km east of the Survey area. The salt lake joins the Red, White and Douglas lakes as part of a larger interconnected salt lake system, which flows in a south westerly direction (Figure 2) (Department of Water and Environmental Regulation, 2018).

2.2.5 Broad Vegetation Types

Mapping of pre-European vegetation in Western Australia was completed on a broad scale (1:1,000,000) by Beard, (1976). These vegetation types were later refined by Shepherd, Beeston and Hopkins, (2002) resulting in 819 vegetation types.

Two broad vegetation associations are mapped over the Survey Area (Figure 3). Representation of the vegetation associations at a local, regional, and state level is shown in Table 2.

- **Coolgardie 9** – Medium woodland; Eucalyptus woodland / Eremophila sparse shrubland. Associated species are coral gum (*Eucalyptus torquata*) and goldfields blackbutt (*E. lesouefii*)
- **Coolgardie 1294** – Eucalyptus woodland. Wheatbelt; York gum, salmon gum etc. (*Eucalyptus loxophleba*, *E. salmonophloia*). Goldfields; gimlet, redwood etc. (*E. salubris*, *E. oleosa*). Riverine; rivergum (*E. camaldulensis*). Tropical; messmate, woolybush.

Table 2: Broad Vegetation Types within the Survey Area and their Representation at the State, Regional and Local Levels (Government of Western Australia, 2019)

System and Vegetation Association	Extent			
	Pre-European (ha)	Current (ha)	Remaining (%)	Managed in DBCA Lands (%)*
Representation across Western Australia				
9	240,509.33	235,161.94	97.78	8.07
1294	6,295.55	6,047.45	96.06	1.90
Representation across the Coolgardie Bioregion				
9	240,441.99	235,100.97	97.78	8.07
1294	6,295.55	6,047.45	96.06	1.90
Representation across the Eastern Goldfields Subregion				
9	235,047.15	229,757.07	97.75	8.26
1294	6,295.55	6,047.45	96.06	1.90
Representation across the Shire of Coolgardie				
9	166,572.37	163,720.39	98.29	9.81
1294	3,385.95	3,378.94	99.79	3.40

*as a portion of the current extent

2.2.6 Environmentally Sensitive Areas

Environmentally Sensitive Areas (ESAs) are declared by the Department of Water and Environmental Regulation (DWER) to prevent the degradation of important environmental values such as Threatened flora, Threatened Ecological Communities (TECs) or significant wetlands.

The Survey Area does not occur within a mapped ESA. The nearest ESA is the Rowles Lagoon Conservation Park located approximately 52 km north-west of the Survey Area (Department of Water and Environmental Regulation, 2020).

2.2.7 Conservation Areas

The Survey Area is not located within any listed conservation area (Department of Biodiversity Conservation and Attractions, 2021a). The nearest conservation area is the Kangaroo Hills Timber Reserve which is situated adjacent to the southernmost section of the Survey Area separated by Nepean Road (Figure 4).

2.2.8 Land Use

The dominant land use of the Eastern Goldfields subregion include: Unoccupied Crown Land (UCL) and Crown reserves, Grazing-Native pastures-leasehold, freehold, conservation, and Mining leases (Cowan, 2001).

The Survey Area covers sections of land classified as: mining lease, prospecting licence, and miscellaneous licence (Data WA, 2021). The Survey Area has a long history of mining activities, with extensive mine diggings including deep open pits and deep localised mine shafts.

3 Methods

3.1 Desktop Assessment

3.1.1 Literature Review

Background information on the Survey Area and surrounds was compiled prior to the field survey (see Section 3.1.1). Historical vegetation mapping (Beard, 1976; Shepherd, Beeston and Hopkins, 2002), land systems mapping (Department of Agriculture and Food WA, 2012), and the IBRA classification system (Cowan, 2001) were consulted to provide broad contextual knowledge of the vegetation units and habitat likely to be encountered within the Survey Area.

The literature review also considered a selection of biological reports detailing assessments undertaken in the region that were publicly available:

- Coolgardie Landfill - Flora, vegetation and fauna habitat assessment (Strategen Environmental, 2019)
- Fauna survey for Mungari Gold Operations Cutters Ridge Project (Phoenix Environmental Sciences, 2019)
- Flora and Vegetation Impact Assessment - Medcalf Project (Botanica Consulting, 2020)
- Level 1 Vertebrate Fauna Risk Assessment for Lot 500 Kalgoorlie West (Terrestrial Ecosystems, 2018)
- Reconnaissance Flora and Vegetation Survey for the Mt Marion Project Area (Native Vegetation Solutions, 2019)
- Reconnaissance Flora and Vegetation Survey of Lot 500 Great Eastern Highway Kalgoorlie (Native Vegetation Solutions, 2018)
- Reconnaissance Flora and Vegetation Survey of the Spargos Project - October 2020 (Native Vegetation Solutions, 2020)
- Vegetation Clearing - Fauna Assessment (Davyhurst, Callion, Waihi, Siberia, Riverina Clearance Areas) (Biostat Pty Ltd, 2020).

3.1.2 Database Searches

Database searches were undertaken to compile a list of potential flora and fauna and identify potential conservation significant flora, fauna, and ecological communities within or surrounding the Survey Areas (Table 3). In addition, an EPBC Protected Matters Search (PMST) was undertaken to identify the potential for Matters of National Environmental Significance (MNES) to occur within or surrounding the Survey Areas (Department of Agriculture Water and the Environment, 2020).

The search area for each parameter was varied to reflect distances recommended by DBCA. The search areas are herein referred to collectively as the Study Area.

Table 3 Database Searches of the Survey Area

Database Name	Date Received	Search Target	Search Area
Threatened and Priority Ecological Communities database search (Department of Biodiversity Conservation and Attractions, 2022)	7 October 2021	TECs and PECs	50 km buffer around the Survey Area
Threatened and Priority Flora (TPFL) database search (Department of Biodiversity Conservation and Attractions, 2021d)	7 October 2021	Threatened and Priority Flora	60 km buffer around the Survey Area
Western Australian Herbarium flora database search (Department of Biodiversity Conservation and Attractions, 2021e)			60 km buffer around the Survey Area
DBCA Threatened and Priority Fauna database search (Department of Biodiversity Conservation and Attractions, 2021c)	18 October 2021	Threatened and Priority Fauna	50 km buffer around Survey Area
NatureMap (Department of Biodiversity Conservation and Attractions, 2021b)	27 October 2021 (flora)	Threatened and Priority flora and fauna, and inventory of potential flora and fauna	20 km buffer around the Survey Area (flora)
	02 November 2021 (fauna)		40 km buffer around Survey Area (fauna)
Protected Matters Search Tool (PMST) (Department of Agriculture Water and the Environment, 2021a)	25 October 2021	Commonwealth listed Threatened flora and fauna and TECs	50 km buffer around the Survey Area

3.1.3 Likelihood of Occurrence

Conservation significant flora and fauna species identified from the desktop assessment were assessed to determine the likelihood of their occurrence within the Survey Area, both prior to and post field survey. The assessment was completed based on the likelihood of occurrence criteria presented in Table 4.

Only species either recorded within the Survey Area or considered as having a high or medium likelihood of occurrence will be discussed in detail. Species classified as having a low likelihood of occurrence based on the above criteria will not be discussed unless a justification for this classification is required.

For fauna, taxa listed as Marine only under the EPBC Act were not included as conservation significant taxa because the Marine only listed taxa identified by the desktop assessment and field survey were common and widespread, taxa listed as Marine only do not constitute matters

of national environmental significance (MNES) under the EPBC Act, and the Survey Area does not contain any marine habitat.

Table 4 Likelihood of Occurrence Criteria

Rank	Criteria
Previously Recorded	The species has been previously recorded in the Survey Area
High (Likely to occur)	<ul style="list-style-type: none"> Preferred habitat capable of supporting individuals or populations is present within the Survey Area The survey Areas is within the taxon's known distribution There are existing records of the species near the Survey Area (within 15 km) (flora) There are existing records of the species near the Survey Area recorded within the last 15 years (fauna) The species is strongly linked to a specific habitat, which is present in the Survey Area The species has more general habitat preferences, and suitable habitat is present.
Medium (May occur)	<ul style="list-style-type: none"> There is suitable (not necessarily preferred) habitat in the Survey Area, but the species is recorded infrequently in the locality The Survey Area is within or near the taxon's known distribution They Survey Area and surrounding area may support individuals or populations present within the Survey Area There are existing records of the species from the locality (within 30 km for flora and 50 km for fauna), however: <ul style="list-style-type: none"> The species is strongly linked to a specific habitat, of which only a small amount is present in the Survey Area The species has more general habitat preferences, but only some suitable habitat is present.
Low (Unlikely to occur)	<ul style="list-style-type: none"> No suitable habitat is present within the Survey Area, or the Survey Area is well outside the taxon's known distribution for the taxon is considered locally or regionally extinct The Survey Area and surrounding habitat are unlikely to support individuals or populations of the taxon, however individuals may rarely occur as transients or vagrants The species is linked to a specific habitat, which is absent from the Survey Area; or Suitable habitat is present, however there are no existing records of the species from the locality despite reasonable previous search effort in suitable habitat; or There is some suitable habitat in the Survey Area, however the species is very infrequently recorded in the locality.

3.2 Field Survey Effort

3.2.1 Trip 1

The biological survey was undertaken between the 11 - 15 October 2021.

The flora, vegetation and fauna survey was undertaken by Senior Botanist Jason Webb, Principal Zoologist Dr Michael Lohr and Ecologist Lachlan Crossley. The field team has over 20 years of combined experience conducting surveys of similar scope throughout Western Australia.

3.2.2 Trip 2

The biological survey was undertaken between the 15 - 19 November 2021.

The flora, vegetation and fauna survey was undertaken by Senior Botanist Jason Webb, Principal Ecologist Scott Walker and Ecologists Bridget Duncan and Lachlan Crossley. The field team has over 20 years of combined experience conducting surveys of similar scope throughout Western Australia.

The survey effort from both trips is shown in Figure 5.

3.3 Flora and Vegetation

3.3.1 Establishment of Flora Sites

Indicative flora sites were identified prior to the survey using aerial photography to estimate broad vegetation patterns within the Survey Area. The location and number of flora sites completed were adjusted on site to achieve sites most representative of the vegetation present.

Where possible, at least three flora sites were sampled for each vegetation type observed within the Survey Area. Some vegetation types that were not large enough to accommodate three flora sites had only one or two sites sampled.

Flora sites consisted of quadrats (20 m x 20 m) and relevés of approximately 400 m² where possible, or alternate configurations approximately equating to 400 m² (as required in areas such as drainage lines, gullies, and narrow ridge lines). A comprehensive record of the flora present at the time of sampling was recorded for both quadrat and relevé sites.

Flora site locations were recorded using a handheld GPS, the start and finish point of linear relevés, and the central point of circular relevés. At each flora site, the following was recorded:

- Site code
- Date and personnel
- Landform and soil description
- Relevant site descriptors including, slope, aspect, litter cover, bare ground cover and fire history
- Inventory of vascular flora including the approximate average height and percent foliar cover for each taxon recorded
- Vegetation description in accordance with the National Vegetation Information System (NVIS), Level 5 'association', whereby the dominant growth form, height, cover, and species (three species) for the three traditional strata (upper, mid, and ground) are described are described

- Vegetation condition in accordance with the Southwest and Interzone Botanical Provinces/Eremaean and Northern Botanical Provinces vegetation condition scale (Environmental Protection Authority, 2016a), and evidence of disturbance (for example clearing, rubbish, feral animals, weed incursion and evidence of feral animals and dieback) where present, and
- Photograph of the vegetation occurring within the site.

A total of 74 quadrats, and 22 relevés were established within the Survey Area. An additional 91 mapping notes were completed to aid vegetation mapping delineation.

3.3.2 Opportunistic Flora

Additional flora taxa observed opportunistically around flora sites or while traversing on foot within the Survey Area were also recorded. Where populations of conservation significant flora taxa, Declared Pests (DPs) or WoNS were encountered, a GPS location and a count of the individuals present was recorded.

3.3.3 Targeted Searching

Prior to the survey conservation significant flora with the likelihood or potential to occur within the Survey Area was compiled (see section 3.1.3). Field personnel familiarised themselves with photographs, reference samples and descriptions of these taxa before conducting the survey.

The entire Survey Area was not systematically searched. Rather, targeted searching focussed on habitat suitable for Conservation Significant Flora. Furthermore, potential habitat within the proposed footprint was prioritised for targeted searching over areas outside the proposed footprint.

Personnel also actively searched for conservation significant flora species in and around flora sites, while traversing on foot within the Survey Area and in known locations or preferred habitat encountered in the Survey Area.

Where Threatened or Priority flora were encountered in the field a GPS location was taken and a count of individuals was recorded, followed by a search in the local vicinity to determine if any other individuals were present nearby and delineate population boundaries where relevant. Specimens of any potential conservation significant flora that could not be identified in the field were collected for identification and lodgement at the Western Australian Herbarium (WAH).

3.3.4 Statistical Analyses

Statistical analysis of quadrat data was undertaken in accordance with EPA guidelines for a detailed flora and vegetation survey.

3.3.4.1 Species Accumulation Curve

Species accumulation curves were plotted using Primer-E version 6.1.5. to determine the adequacy of the survey (Clarke and Gorley, 2006). The treatments comprised Sobs (Mao Tao), to reflect the number of species observed (based on a given total of species recorded), and richness estimators Chao 1, Chao 2, Jackknife 1, Bootstrap and Michaelis-Menton to estimate the total sample size of flora taxa present. Species accumulation curves for this survey were calculated using data collected from the flora sites within the Survey Area. All flora taxa, both annual and perennial, within each flora site were used in generating the species accumulation curve. Unconfirmed flora were included if they were the only species present from a Genus.

3.3.5 Taxonomy and Nomenclature

Where field identification of plant taxa was not possible, specimens were collected for identification using resources of the WAH. Identification of flora collections was completed by experienced Taxonomist Frank Obbens.

The finalised species list was cross-referenced against current flora databases and relevant taxonomic literature (Western Australian Herbarium, 2021) to determine name currency, conservation status and known distribution of each taxon. Introduced species were compared against the current BAM Act Declared Plants list the WoNS list to determine their control status (Department of Agriculture Water and the Environment, 2021b; Department of Primary Industries and Regional Development, 2021).

Any conservation significant flora taxa, including potential Threatened and Priority species, range extensions and potential new taxa were submitted to the WAH for verification and lodgement. Where relevant, Threatened and Priority Flora Report Forms (TPFRFs) were submitted to DBCA.

3.3.6 Vegetation Unit and Condition Mapping

Broad vegetation and condition mapping was conducted in the field, with boundaries delineated over aerial photography, at a scale of 1:5,000. Broad vegetation units were refined based on taxonomic identification of flora collections, statistical analysis of data collected from the quadrats and relevés, and mapping notes taken during the field survey. Vegetation condition mapping was refined based on site data and mapping notes. Finalised polygons were digitised and produced as electronic mapping data using GIS software.

3.4 Vertebrate Fauna

3.4.1 Vertebrate Fauna Habitat Assessment

Fauna habitat assessments were undertaken throughout the Survey Area to identify fauna habitat values. Habitat assessment locations are displayed in Figure 5. The following information, which has been adapted from the habitat attributes listed in the Technical Guidance (Environmental Protection Authority, 2020), was collected at each habitat assessment site using Fulcrum, a mobile data collection app:

- Site photo
- Landform
- Soil type and colour
- Rock types, surface stone cover and size classes
- Key habitat and microhabitat features including leaf litter, logs, burrows, rocky outcrops, rock crevices, hollows, water sources
- Habitat quality, fire history and evidence of disturbance
- General description of vegetation structure.

Fauna habitat mapping boundaries were delineated over aerial imagery at a scale of approximately 1:5,000 based on field observations and fauna habitat assessment data. Polygons were digitised and produced as electronic mapping data using GIS software.

3.4.2 Opportunistic Fauna Records and Active Searches

Opportunistic observations of fauna were recorded throughout the Survey Area. Observations of primary evidence (direct sightings, calls) and secondary evidence (tracks, scats, diggings etc.) were recorded. Active searches were undertaken throughout the Survey Area in microhabitats likely to contain fauna. They primarily involved raking leaf litter, peeling bark, and splitting dead wood.

3.4.3 Identification and Taxonomy

Where there was doubt on a species name (through subsequent name changes or taxonomic reviews), an effort was made to determine the current scientific name for each taxon. Taxonomy and nomenclature in this report follows the WA Museum checklist 2021 (Western Australian Museum, 2021) where relevant.

4 Results

4.1 Limitations

Limitations and constraints of the flora, vegetation and fauna survey are detailed below in Table 5

Table 5: Limitations and Constraints Associated with the Survey

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
Survey Scope	Not a constraint	<p>The detailed flora and vegetation survey was undertaken in accordance with EPA Technical Guidance (Environmental Protection Authority, 2016) and was considered appropriate to support approvals applications.</p> <p>Targeted searching for flora of conservation significance was undertaken, however, systematic searches were not feasible. Rather, targeted searching focused on habitat suitable for conservation listed flora within the proposed development footprint.</p> <p>A basic terrestrial vertebrate fauna survey was undertaken in accordance with EPA Technical Guidance (Environmental Protection Authority, 2020) and was considered appropriate to support approvals applications.</p>
Availability of Data	Not a constraint	All data required to complete the scope of works including regional and local contextual information was available.
Site Access	Not a constraint	The Survey Area was able to be accessed by vehicle and on foot.
Survey Intensity and Resources	Not a constraint	<p>A total of 96 flora sites (comprising 74 quadrats and 22 relevés) were sampled across the Survey Area. An additional 91 mapping notes were undertaken to aid vegetation mapping and delineation.</p> <p>Sufficient time was allocated to the flora and vegetation survey, given the size and complexity of the Survey Area, and the expected level of survey intensity.</p> <p>The survey effort was considered adequate to assess the flora and vegetation values of the Survey Area and provide information required to support approvals applications.</p> <p>Eighty fauna habitat assessments were completed, and 61 fauna taxa were recorded opportunistically throughout the Survey Area. The survey effort was appropriate for a basic terrestrial vertebrate fauna survey.</p>

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
Experience	Not a constraint	<p>The flora and vegetation surveys were undertaken by Senior Botanist Jason Webb and Botanist Bridget Duncan, who have over 5 years combined experience conducting surveys of similar scope throughout Western Australia.</p> <p>Identification of flora collections was completed by experienced taxonomist Frank Obbens at the WAH. Any specimens with novel characteristics were submitted to the WAH for formal identification.</p> <p>The fauna survey was undertaken by Lachlan Crossley (Ecologist), Dr. Michael Lohr (Principal Zoologist) and Scott Walker (Principal Ecologist), who have 25 years of combined experience conducting fauna surveys.</p> <p>Fauna identification was reviewed by Dr. Michael Lohr (Principal Zoologist) and Evan Webb (Senior Zoologist), using photos of tracks and scats taken during the field survey.</p>
Timing, weather, season	<p>Not a constraint</p> <p>Partial limitation for fauna (Amphibians)</p>	<p>The recommended primary survey period for the region as per the EPA Technical Guidance, is September to November. Survey was conducted in October and November 2021. Rainfall was sufficient prior to the commencement of the field survey and air temperatures were slightly below average. Therefore, weather conditions were not a constraint.</p> <p>According to the EPA Technical Guidance, mammals do not have a preferred time of year for optimal observation.</p> <p>For reptiles, the guidance suggests October to December (for primary survey). As the surveys were conducted in October and November, timing was suitable for reptiles.</p> <p>The optimum timing for observation of amphibians is between May and August (autumn-winter breeders) and November-December (summer breeders). Therefore, the timing of the surveys was not suitable for autumn-winter breeders.</p> <p>The optimum time to observe birds is between September and December for most bush birds and between November and March for migratory birds. As the surveys were conducted in October and November, timing was suitable for birds.</p>
Life Forms Sampled	Not a constraint	<p>The Survey Area was traversed by vehicle and on foot and representative sites of all remnant vegetation were sampled. All flora species encountered within the Survey Area were recorded.</p> <p>A total of 145 vascular flora taxa were recorded from the Survey Area, comprising 93.8% native flora taxa and 6.2% introduced flora taxa.</p> <p>Of the 145 flora taxa recorded, 18 taxa (12.4%), could not be identified to species level because they were sterile at</p>

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
		<p>the time of the survey. This was not considered a constraint as it represented a very small portion of the flora sampled.</p> <p>None of the unknown flora taxa collected were analogous to Threatened or Priority flora taxa identified by the database searches as likely to occur within the Survey Area, nor were they representative of flora of other significance.</p> <p>The basic vertebrate fauna survey used a range of techniques to detect fauna taxa within the Survey Area.</p> <p>A total of 61 vertebrate fauna taxa were recorded within the Survey Area, comprising 54 confirmed native taxa and seven introduced taxa.</p> <p>All fauna taxa recorded were able to be identified to species level by direct or indirect observation with a high level of confidence.</p>
Mapping Reliability	Not a constraint	<p>Vegetation types were described and mapped based on quadrat/relevé data and additional mapping notes taken during the field survey. The number of sites and coverage of the Survey Area was considered sufficient to inform the survey.</p> <p>Fauna habitat mapping was based largely on vegetation mapping and there were no constraints on mapping reliability.</p>
Disturbances (fire, flood etc.)	Not a constraint	<p>No disturbances occurred during any of the surveys.</p> <p>Areas of disturbance associated with clearing, mining, rubbish, weeds, and the presence of introduced fauna were recorded but were not a constraint on the results of the survey.</p>
Completeness	Not a constraint	<p>The survey was considered complete for a detailed flora and vegetation survey and basic vertebrate fauna survey.</p> <p>All vegetation types and fauna habitats were surveyed and delineated within the Survey Area, however not all vegetation types were surveyed with three flora sites; five vegetation types were surveyed with one or two flora sites.</p>

4.2 Flora and Vegetation

4.2.1 Literature Review

The key findings of the flora and vegetation reports reviewed are summarised in Appendix A1.

4.2.2 Database Searches

Database searches identified 90 conservation significant flora species occurring within 50 km of the Survey Area (Figure 6, Appendix B), comprising:

- Three Threatened taxa
- Twenty-seven Priority 1 taxa

- Fourteen Priority 2 taxa
- Forty Priority 3 taxa, and
- Six Priority 4 taxa.

4.2.3 Likelihood of Occurrence

The pre-survey likelihood of occurrence assessment identified that of the 90 conservation significant flora species identified by the desktop assessment:

- 20 were considered to have a high likelihood of occurrence
- 18 were considered to have a medium likelihood of occurrence
- 51 were considered to have a low likelihood of occurrence.

Following the survey, the likelihood of occurrence was re-assessed and found:

- Two taxa were considered to have a high likelihood of occurrence, due to close records and existing, contiguous habitat within the Survey Area.

The likelihood of occurrence assessment is provided in Appendix C.

4.2.4 Vegetation of Conservation Significance

Database searches did not return any listed Threatened Ecological Communities or Protected Ecological Communities within 50 km of the Survey Area.

4.2.5 Flora Composition

The survey recorded a total of 149 taxa from 78 genera across 35 families (Appendix D). The dominant families were Chenopodiaceae (26 taxa) and Myrtaceae (15 taxa). The most dominant genera were *Eucalyptus* (12 taxa) and *Eremophila* (10 taxa).

4.2.6 Flora of Conservation Significance

4.2.6.1 Threatened or Priority Flora

No Threatened flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened pursuant to the BC Act 2016 were recorded during the survey.

One Priority taxon was recorded within the Survey Area (Figure 7a, Plate 1). A population consisting of approximately 10 individuals of *Austrostipa blackii* (P3) was recorded in quadrat C1Q01. This taxon is a tufted, perennial, grass, typically growing up to 1 m high that flowers between September and November. The WAH has 41 specimens lodged with records across the Avon Wheatbelt, Coolgardie and Yalgoo bioregions (Western Australian Herbarium, 2022). The habitat descriptions for this taxon are typically mixed Eucalypt species, tall Acacia shrublands and open woodlands of *Allocasuarina dielsiana* and *Allocasuarina tessellata* (Western Australian Herbarium, 2022). *Austrostipa blackii* (P3) grows on gently inclined lower slopes of basalt with red-brown deep sandy clay loam soils (Western Australian Herbarium, 2022).



Plate 1: *Austrostipa blackii* (P3)

Within the Survey Area it was recorded within vegetation unit AcEoaDI (quadrat C1Q01), in association with *Acacia collegialis*, *Eremophila* spp. and *Dodonaea lobulata*. This vegetation type was sampled heavily and was not recorded at any other site.

4.2.7 Introduced Taxa

A total of 13 introduced taxa were recorded within the Survey Area, representing 8.7% of the total taxa recorded (Table 6). One taxon (**Opuntia stricta*) is a Declared Pest and listed as a WoNS (DAWE, 2021b; DPIRD, 2021). Eight individuals of **O. stricta* were recorded (Figure 8).

Three introduced taxa are unlisted under the BAM Act, which prohibits them access to Western Australia, however they are not assigned a control management category (DPIRD, 2021).

Table 6: Introduced Flora Species within the Survey Area

Species	Common Name	Status under BAM Act	WoNS
<i>*Agave americana</i>	Century plant	Permitted - s11	No
<i>*Asphodelus fistulosus</i>	Onion Weed	Permitted - s11	No
<i>*Carrichtera annua</i>	Ward's Weed	Permitted - s11	No
<i>*Centaurea melitensis</i>	Maltese Cockspur	Permitted - s11	No
<i>*Crassula ovata</i>	Jade Tree	Permitted - s11	No

Species	Common Name	Status under BAM Act	WoNS
<i>*Heliotropium europaeum</i>	Common Heliotrope	Permitted - s11	No
<i>*Nicotiana glauca</i>	Tree Tobacco	Permitted - s11	No
<i>*Oligocarpus calendulaceus</i>	-	Unlisted – s14	No
<i>*Rumex vesicaria</i>	Ruby Dock	Unlisted – s14	No
<i>*Salvia verbenaca</i>	Wild Sage	Permitted - s11	No
<i>*Schinus molle</i> var. <i>areira</i>	-	Unlisted – s14	No
<i>*Sonchus asper</i>	Rough Sowthistle	Permitted - s11	No
<i>*Opuntia stricta</i>	Common Prickly Pear	Declared Pest - s22(2)	Yes

4.2.8 Unconfirmed Flora

Eighteen specimens (12.1% of the taxa recorded) could not be identified to species level because the taxa were sterile at the time of the survey (Appendix D). Of these, all but one, *Malvaceae* sp., were able to be identified to genus level, and two were assigned a tentative genus, *?Enchylaena tomentosa* and *?Pimelea* sp.

None of the unconfirmed flora taxa were analogous to Priority flora taxa identified by the database searches.

4.2.9 Vegetation Condition

The Survey Area has been subjected to medium to high level disturbances, including historical small and large scale mine excavations, makeshift tracks, cattle grazing, weeds, and litter. As such, vegetation condition within the Survey Area was predominantly Excellent, and ranged to Completely Degraded (where all vegetation had been completely cleared) (Keighery, 1994) (Table 7, Figure 7).

Table 7 Area (ha) covered by each vegetation condition category within the Survey Area

Vegetation Condition	Area (ha)	% of Survey Area
Excellent	790.6	58.1%
Very Good	327.9	21.2%
Good	78.4	5.8%
Completely Degraded	163.6	12%
Total	1360.7	100



4.2.10 Vegetation Types

Ten vegetation types were described and mapped across four broad landforms within the Survey Area (plains, rocky hills, claypan, and lake) (Table 8, Figure 8). The majority of the Survey Area was dominated by open plains with a mosaic of low *Eucalyptus* spp. (34.8%) which grew together across the plains, and Salmon Gum (*Eucalyptus salmonophloia*) open woodlands (31.4%). Small rocky hills dominated by *Acacia collegialis* shrubland also covered 13.1% of the Survey Area. While 11.5% of the Survey Area was considered to be 'Cleared', some of this was showing signs of revegetation with both native species (such as *Atriplex* and *Maireana*) and introduced (weed) species. These areas did not appear to have been intentionally revegetated.



Detailed data sheets for each flora site are provided in Appendix E.

Table 8: Vegetation Types Occurring within the Survey Area


Vegetation Unit and Description*	Local Landform	Total Area, Proportion of the Survey Area	Sites	Photograph
<p><u>AcEoaDI</u> <i>Acacia collegialis</i> (A. acuminata) tall shrubland over <i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>, <i>E. georgei</i>, <i>A. tetragonophylla</i> (<i>Senna artemisioides</i> subsp. <i>filifolia</i>, <i>Exocarpos aphyllus</i>) mid shrubland over <i>Dodonaea lobulata</i> (<i>Atriplex vesicaria</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>) low shrubland</p>	Rocky hills	178.5 ha 13.1%	C1Q01, C1Q04, C1Q06, C1Q09, C1Q21, C1Q25, C1Q26, C1Q28, C1Q29, C1Q30, C1R04, C2Q07, C2Q09, C2Q14, C2Q18, C2Q32, C2Q33, C2Q34, C2Q35, C2Q38, C2Q40	
<p><u>Ec</u> <i>Eucalyptus celastroides</i> low woodland</p>	Low slopes of rocky hills	7.4 ha 0.5%	C2Q43, C2R17	

Vegetation Unit and Description*	Local Landform	Total Area, Proportion of the Survey Area	Sites	Photograph
<p><u>EgAhSaf</u> <i>Eucalyptus griffithsii</i> low open woodland over <i>Acacia hemiteles</i> and <i>Dodonaea stenozyga</i> (<i>A. jennerae</i>, <i>Alyxia buxifolia</i>) mid shrubland over <i>Senna artemisioides</i> subsp. <i>filifolia</i> and <i>Atriplex vesicaria</i> (<i>Olearia muelleri</i>) low open shrubland</p>	Plains	75.6 ha 5.6%	C1Q10, C1Q20, C1R13, C2Q27, C2Q29, C2Q31, C2Q41, C2Q50, C3Q01, C3Q02A, C3R01	
<p><u>EooEiiDs</u> <i>Eucalyptus oleosa</i> subsp. <i>oleosa</i> low open woodland over <i>Eremophila interstans</i> subsp. <i>interstans</i> mid isolated shrubs over <i>Dodonaea stenozyga</i>, <i>Eremophila glabra</i> subsp. <i>glabra</i>, and <i>Olearia muelleri</i> low open shrubland</p>	Plains	11.1 ha 0.8%	C2Q11, C2Q37	

Vegetation Unit and Description*	Local Landform	Total Area, Proportion of the Survey Area	Sites	Photograph
<p><u>ErMhOm</u> <i>Eucalyptus ?ravida</i> low open woodland over <i>Melaleuca ?hamata</i> (<i>M. pauperiflora</i> subsp. <i>fastigiata</i>, <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>) tall open shrubland over <i>Olearia muelleri</i> low isolated shrubs</p>	Plains	4.7 ha 0.3%	C2Q02, C2Q04, C2Q06	
<p><u>EsEiiAv</u> <i>Eucalyptus salmonophloia</i> mid open woodland over <i>Eremophila intertans</i> subsp. <i>interstans</i> (<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>, <i>Senna artemisioides</i> subsp. <i>filifolia</i>) tall to mid isolated shrubs over <i>Atriplex vesicaria</i> low open shrubland</p>	Plains	428.0 ha 31.4%	C1Q03, C1Q22, C1Q23, C1Q24, C2Q12, C2Q19, C2Q20, C2Q21, C2Q24, C2Q26, C2Q28, C2Q46, C2Q52, C2Q54	

Vegetation Unit and Description*	Local Landform	Total Area, Proportion of the Survey Area	Sites	Photograph
<p><u>EsppEiiSaa</u></p> <p><i>Eucalyptus salmonophloia</i> mid isolated trees over a mosaic of <i>E. celastroides</i>, <i>E. clelandiorum</i>, and <i>E. torquata</i> low open woodland over <i>Eremophila interstans</i> subsp. <i>interstans</i> (<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>) mid isolated shrubs over <i>Senna artemisioides</i> subsp. <i>artemisioides</i>, <i>S. artemisioides</i> subsp. <i>filifolia</i>, and <i>Atriplex vesicaria</i> low open shrubland</p>	Plains, low hills	472.3 ha 34.8%	C1Q02, C1Q05, C1R05, C1R09, C1R10, C2Q01, C2Q03, C2Q05, C2Q08, C2Q10, C2Q13, C2Q15, C2Q16, C2Q36, C2Q39, C2Q42, C2Q45, C2R09, C3Q02, C3Q02B, C3Q06	
<p><u>EtEaEpa</u></p> <p><i>Eucalyptus torquata</i> low open woodland over <i>Exocarpos aphyllus</i> mid isolated shrubs over <i>Eremophila parvifolia</i> subsp. <i>auricampi</i>, <i>Westringia rigida</i>, and <i>Scaevola spinescens</i> (<i>Olearia muelleri</i>) low open shrubland</p>	Plains, lower slopes of rocky hills	20.7 ha 1.5%	C1Q07, C1Q08, C1Q27, C1R01, C1R02, C1R03, C1R11	

Vegetation Unit and Description*	Local Landform	Total Area, Proportion of the Survey Area	Sites	Photograph
<p>SI <i>Streptoglossa liatroides</i> low open herbland</p>	Clay	0.3 ha <0.1%	C2R44	
<p>Lake Coolgardie Gorge, natural semi-permanent pool system, with a fringe of native and introduced flora taxa including <i>Eucalyptus</i> spp., <i>*Schinus molle</i> var. <i>areira</i>, <i>*Heliotropium europaeum</i>, and <i>*Sonchus asper</i>.</p>	Lake system	5.6 ha 0.4%	C2R07	

Vegetation Unit and Description*	Local Landform	Total Area, Proportion of the Survey Area	Sites	Photograph
<p><u>Cleared</u></p> <p>Cleared or historically cleared areas including mine pits and borrow pits (often filled with water), bitumen roads, and dirt tracks.</p> <p>Some of these areas were showing signs of revegetation. With occasional <i>Eucalyptus griffithsii</i>, <i>Atriplex vesicaria</i>, <i>Maireana</i> spp., and assorted weed species.</p>	Plains	156.9 ha 11.5%	C2Q17, C2Q25	

*Brackets indicate species that may or may not be present, but were observed as dominant/sub-dominant at some of the sites that make up the vegetation type

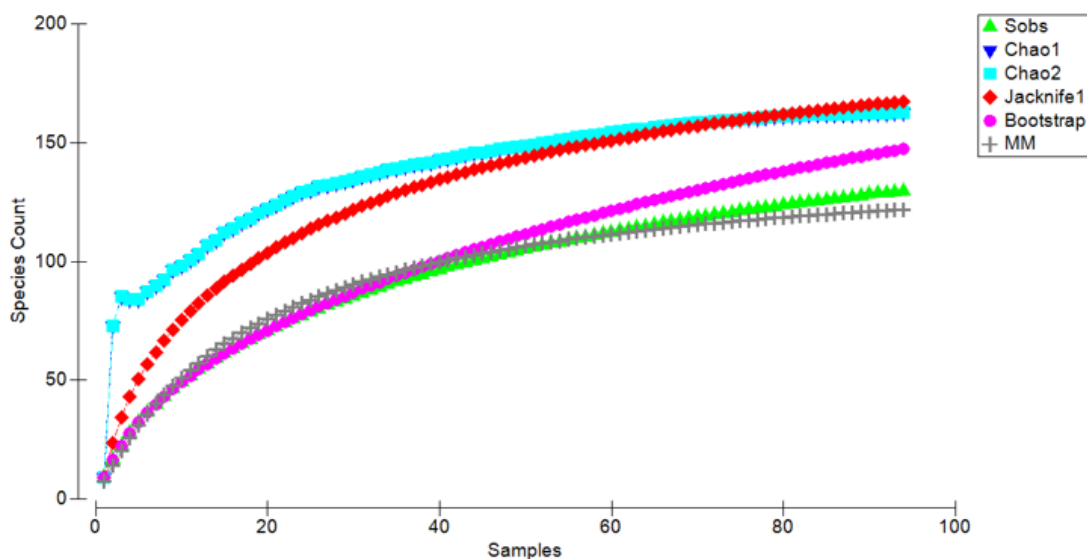
4.2.11 Groundwater Dependent Ecosystems

The Groundwater Dependent Ecosystem (GDE) Atlas identified the Survey Area did not contain any GDEs (Bureau of Meteorology, 2022). The results from the flora and vegetation survey support the GDE Atlas as vegetation in the Survey Area comprised xerophytic species that are not groundwater dependent.

4.2.12 Survey Adequacy

Ninety-six flora sites (74 quadrats and 22 relevés) were sampled across the Survey Area. This was adequate to ensure sufficient coverage given the overall size of the Survey Area. Two vegetation types were sampled with only two sites, while a further two were sampled with a single site. This was due to the vegetation being highly restricted in the Survey Area.

The sample rarefaction (Mao Tau) for the Survey Area produced a smooth S_{obs} curve, steadily increasing towards asymptote indicating that the survey captured the majority of flora taxa present with the Survey Area (Graph 2).



Graph 2: Flora Species Accumulation Curve (Sample rarefaction)

Estimated species richness for the Survey Area ranged from 122.1 to 167.6, with an observed value of 130 taxa (Table 9). Richness estimators indicated that the survey was approximately 77.5% to 106.4% adequate in recording the full complement of vascular flora taxa within the Survey Area (Table 9).

The data used to produce the species accumulation curve was conservative because opportunistic species (which are not associated with a site) were not included. Unconfirmed flora taxa were included if they were the only species present from a Genus.

Table 9: Species Richness Indicators

Treatment	Expected Species Richness	Percentage Adequate
Chao 1	162.8	79.8
Chao 2	162.8	79.8
Jackknife 1	167.6	77.5
Bootstrap	147.6	88.0
Michaelis-Menton	122.14	106.4

4.3 Vertebrate Fauna

4.3.1 Desktop Assessment

The desktop assessment identified 20 conservation significant terrestrial vertebrate fauna species potentially occurring within the Survey Area, comprising 17 birds and three mammals.


Key findings of the literature review are summarized in Appendix A2. Database search results are presented in Figure 9 and Appendix B.

4.3.2 Fauna Habitat

Five broad fauna habitats were identified and mapped within the Survey Area (Figure 10). Habitat condition varied throughout the Survey Area with the most prolific forms of disturbance being previous mining activity, litter, and vehicle tracks. Other disturbances included clearing, erosion, weeds, and introduced fauna.

A description, extent within the Survey Area, and a representative photo is provided for each fauna habitat in Table 10. Small discrepancies in fauna habitat extents (i.e., not adding up to the exact area extent of the Survey Area) are due to rounding. Fauna habitat mapping is presented in Figure 10 and site sheets for each habitat assessment are shown in Appendix F.


Table 10: Fauna Habitat Types within the Survey Area

Fauna Habitat	Total Area, Proportion of the Survey Area	Habitat Description	Representative Photo
Acacia Shrublands	75.8 ha	<p><i>Eucalyptus griffithsii</i> low open woodland over <i>Acacia hemiteles</i> and <i>Dodonaea stenozyga</i> (<i>A. jennerae</i>, <i>Alyxia buxifolia</i>) mid shrubland over <i>Senna artemisioides</i> subsp. <i>filifolia</i> and <i>Atriplex vesicaria</i> (<i>Olearia muelleri</i>) low open shrubland</p> <p>Hollow logs, leaf litter, and peeling bark are present throughout this habitat type. These microhabitat features provide shelter and foraging opportunities for small reptiles, birds, and mammals.</p> <p>Conservation significant fauna such as the Malleefowl (<i>Leipoa ocellata</i>) and the Western Quoll, Chuditch (<i>Dasyurus geoffroii fortis</i>) may use this habitat.</p> <p>Habitat condition varied from disturbed to very good. Evidence of disturbance includes previous mining activity, vehicle tracks, litter, and the presence of introduced fauna.</p>	

Fauna Habitat	Total Area, Proportion of the Survey Area	Habitat Description	Representative Photo
Eucalyptus Woodlands	943.9 ha	<p>Mixed <i>Eucalyptus</i> sp. woodlands over <i>Acacia</i> sp., <i>Dodonaea</i> sp., <i>Eremophila</i> sp. or <i>Melaleuca</i> sp., mixed shrublands.</p> <p>Peeling bark, woody debris, leaf litter and hollow logs were observed throughout this habitat type. These microhabitat features provide shelter for small reptiles and mammals. The canopy of trees provides shelter and foraging habitat for birds.</p> <p>Evidence of the conservation significant Western Quoll, Chuditch (<i>Dasyurus geoffroii fortis</i>) was recorded in this habitat type. The Malleefowl (<i>Leipoa ocellata</i>) may also use this habitat.</p> <p>Habitat condition varied from highly degraded to high quality. Evidence of disturbance includes previous mining activity, vehicle tracks, litter, and the presence of introduced fauna.</p>	

Fauna Habitat	Total Area, Proportion of the Survey Area	Habitat Description	Representative Photo
Open Water	2.7 ha	<p>Coolgardie Gorge was located within the Survey Area, with a fringe of introduced flora taxa including <i>*Schinus molle</i> var. <i>areira</i>, <i>*Heliotropium europaeum</i>, and <i>*Sonchus asper</i>. Additional standing water was identified within remnant mine pits, however this may only be temporary.</p> <p>Microhabitats and habitat features unique to this habitat type include exfoliating rock, steep rocky crevices and water sources.</p> <p>Migratory birds such as the Common Sandpiper (<i>Actitis hypoleucos</i>), Sharp-tailed Sandpiper (<i>Calidris acuminata</i>), Curlew Sandpiper (<i>Calidris ferruginea</i>), Wood Sandpiper (<i>Tringa glareola</i>), Common Greenshank (<i>Tringa nebularia</i>) and Glossy Ibis (<i>Plegadis falcinellus</i>) may use these areas.</p> <p>Habitat condition varies from highly degraded to disturbed. Evidence of disturbance includes previous mining activity, vehicle tracks, litter, and the presence of introduced fauna.</p>	

Fauna Habitat	Total Area, Proportion of the Survey Area	Habitat Description	Representative Photo
Rocky Slopes	178.5	<p><i>Acacia collegialis</i> (<i>A. acuminata</i>) tall shrubland over <i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>, <i>E. georgei</i>, <i>Acacia tetragonophylla</i> (<i>Senna artemisioides</i> subsp. <i>filifolia</i>, <i>Exocarpos aphyllus</i>) mid shrubland over <i>Dodonaea lobulata</i> (<i>Atriplex vesicaria</i>, <i>Ptilotus obovatus</i> var. <i>obovatus</i>) low shrubland</p> <p>Leaf litter, peeling bark, rock crevices, and woody debris provides shelter for small reptiles and mammals. Shrublands provide shelter and foraging habitat for birds, reptiles, and mammals.</p> <p>Malleefowl (<i>Leipoa ocellata</i>) may forage within this habitat, however, it is unlikely to nest in this habitat due to the rocky substrate. The Western Quoll, Chuditch (<i>Dasyurus geoffroii fortis</i>) may use this habitat.</p> <p>Habitat condition varies from disturbed to very good. Evidence of disturbance includes previous mining activities, vehicle tracks, litter, and the presence of introduced fauna.</p>	

Fauna Habitat	Total Area, Proportion of the Survey Area	Habitat Description	Representative Photo
Cleared Areas	160.9 ha	<p>Cleared or historically cleared areas including mine pits and borrow pits (often filled with water), bitumen roads, and dirt tracks.</p> <p>Areas of completely cleared land include vehicle access tracks and previous mining activity including mining pits. These areas have limited value as habitat for fauna.</p> <p>The mining pits may provide some habitat for small reptiles and mammals in the form of steep rocky crevices and isolated shrubs and grasses.</p> <p>Evidence of disturbance includes previous mining activity, vehicle tracks, litter, and the presence of introduced fauna.</p>	

4.3.3 Fauna Records

The terrestrial vertebrate fauna survey recorded a total of 61 fauna taxa from 33 families. An inventory of fauna recorded during the field survey is provided in Appendix G.

Table 11: Overview of Vertebrate Fauna Species Recorded

Fauna group	Number of species	Number of families
Birds	42	21
Mammals	10	7
Reptiles	9	5
Amphibians	0	0
Total	61	33

4.3.3.1 Birds

A total of 42 avian taxa from 21 families were recorded throughout the Survey Area. The most recorded taxon was the Budgerigar (*Melopsittacus undulatus*), followed by the Australian Ringneck (*Platycercus zonarius*) and the Singing Honeyeater (*Gavicalis virescens*). The most diverse avifauna families were Meliphagidae (seven taxa) and Acanthizidae (six taxa).

4.3.3.2 Mammals

A total of three native mammals were recorded within the Survey Area. The most recorded native mammal taxon was the Western Grey Kangaroo (*Macropus fuliginosus melanops*). Seven introduced mammal taxa were recorded in the Survey Area, Goat (*Capra hircus*), European Cattle (*Bos primigenius taurus*), Dog/Dingo (*Canis familiaris*), Red fox (*Vulpes vulpes*), Horse (*Equus caballus*), Cat (*Felis catus*) and Rabbit (*Oryctolagus cuniculus*).

4.3.3.3 Reptiles

A total of nine reptilian species from five families were recorded throughout the Survey Area. The most recorded species was the Bobtail (*Tiliqua rugosa*) followed by the Bynoe's Gecko (*Heteronotia binoei*). The most diverse reptilian family was Agamidae (four taxa).

4.3.3.4 Amphibians

No amphibians were recorded during the field survey.

4.3.4 Conservation Significant Fauna

One conservation significant taxon was recorded via observation of a scat during the fauna survey, the Western Quoll, Chuditch (*Dasyurus geoffroii fortis*), which is listed Vulnerable under the BC and EPBC Act (Plate 2).



Plate 2: Scat of Western Quoll, Chuditch (*Dasyurus geoffroii fortis*)

GPS Coordinates: Latitude: -30.920324, Longitude: 121.184610. Image Source 360 Environmental.

Three conservation significant fauna taxa were assessed as having a high likelihood of occurrence within the Survey Area:

- Malleefowl (*Leipoa ocellata*), Vulnerable under the BC and EPBC Act
- Common Sandpiper (*Actitis hypoleucos*), International Agreement under the BC Act and Migratory and Marine under the EPBC Act
- Common Greenshank (*Tringa nebularia*), International Agreement under the BC Act and Migratory and Marine under the EPBC Act.

Four conservation significant taxa were assessed as having a medium likelihood of occurrence within the Survey Area:

- Sharp-tailed Sandpiper (*Calidris acuminata*), International Agreement under the BC Act and Migratory and Marine under the EPBC Act
- Curlew Sandpiper (*Calidris ferruginea*), Critically Endangered, International Agreement under the BC Act and Critically Endangered, Migratory and Marine under the EPBC Act

- Wood Sandpiper (*Tringa glareola*), International Agreement under the BC Act and Migratory and Marine under the EPBC Act
- Glossy Ibis (*Plegadis falcinellus*), International Agreement under the BC Act and Migratory and Marine under the EPBC Act.

Twelve conservation significant taxa were assessed as having a low likelihood of occurrence within the Survey Area. Further details regarding recorded and potential conservation significant fauna are provided below in Table 12.

Table 12: Conservation Significant Fauna Likelihood of Occurrence

Conservation Status: State - Listed under Biodiversity Conservation Act 2016 or Department of Biodiversity, Conservation and Attractions Conservation List, Federal - Listed under Environmental Protection and Biodiversity Conservation Act 1999. CR - Critically Endangered, EN - Endangered, VU - Vulnerable, IA/MI - Migratory, CD - Conservation Dependent fauna, OS - Other Specially Protected fauna, MA - Marine, P - Listed as Priority by DBCA.

Family	Scientific Name	Common Name	Conservation Status		Source					Likelihood of Occurrence	Justification
			State	Federal	NIM	PMST	DBCA	DBCA 15 yrs	Field Survey		
AVIAN											
<i>Apodidae</i>	<i>Apus pacificus</i>	Pacific Swift (Fork-tailed Swift)	IA	MI, MA		x				Low	Three records within 100 km on the Survey Area (Atlas of Living Australia, 2022a). Species may fly over the Survey Area as it covers a wide range of airspace over varied habitat (Morcombe, 2003).
<i>Cacatuidae</i>	<i>Calyptrorhynchus latirostris</i>	Carnaby's Cockatoo	EN	EN	x		x	4		Low	This species was recorded 30 km NE of the Survey Area in Kalgoorlie (Department of Biodiversity Conservation and Attractions, 2021c). However, these records occur well outside the known distribution of the species and likely represent a vagrant occurrence of the taxon (Department of Sustainability

Family	Scientific Name	Common Name	Conservation Status		Source					Likelihood of Occurrence	Justification
			State	Federal	NM	PM/ST	DBCA	DBCA 15 yrs	Field Survey		
											Environment Water Population and Communities, 2012).
Charadriidae	<i>Thinornis cucullatus</i>	Hooded Plover (Hooded Dotterel)	P4	MA			x			Low	Closest record 42 km NE of the Survey Area (Department of Biodiversity Conservation and Attractions, 2021c). No suitable habitat within the Survey Area (Menkhorst <i>et al.</i> , 2017).
Falconidae	<i>Falco hypoleucos</i>	Grey Falcon	VU	VU		x				Low	No recent nearby records. Some records within 100 km on the Survey Area (Atlas of Living Australia, 2022b). Preferred nesting habitat absent. May use Survey Area for hunting (Menkhorst <i>et al.</i> , 2017).
Megapodiidae	<i>Leipoa ocellata</i>	Malleefowl	VU	VU	x	x	x	79		High	Recent records within 1 km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2021c). Recorded 40 km north of the Survey Area in 2019 (Phoenix

Family	Scientific Name	Common Name	Conservation Status		Source					Likelihood of Occurrence	Justification
			State	Federal	NM	PM/ST	DBCA	DBCA 15 yrs	Field Survey		
											Environmental Sciences, 2019). Suitable habitat present, unburned mallee and woodland with abundant litter and low scrub (Morcombe, 2003)
Motacillidae	<i>Motacilla cinerea</i>	Grey Wagtail	IA	MI, MA		x				Low	Survey Area is well outside of the distribution of this species Area (Atlas of Living Australia, 2022b). Some suitable habitat present in parts i.e. water bodies (Morcombe, 2003).
Psittaculidae	<i>Pezoporus occidentalis</i>	Night Parrot	CR	EN		x				Low	No records within 100 km on the Survey Area (Atlas of Living Australia, 2022b). No suitable habitat within the Survey Area (Morcombe, 2003).
Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	IA	MI, MA	x	x	x	3		Previously Recorded	Three recent records within the Survey Area (Department of Biodiversity Conservation and Attractions, 2021c). Some suitable habitat present i.e. interior wetlands – narrow muddy edges of billabongs (Morcombe, 2003).

Family	Scientific Name	Common Name	Conservation Status		Source					Likelihood of Occurrence	Justification
			State	Federal	NM	PM/ST	DBCA	DBCA 15 yrs	Field Survey		
<i>Scolopacidae</i>	<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	IA	MI, MA	x	x	x	2		Medium	Nearest record 15 km NW of the Survey Area (Department of Biodiversity Conservation and Attractions, 2021c). Suitable habitat present (water bodies) (Morcombe, 2003).
<i>Scolopacidae</i>	<i>Calidris alba</i>	Sanderling	IA	MI, MA	x		x	1		Low	Nearest record in Kalgoorlie (Department of Biodiversity Conservation and Attractions, 2021c). No suitable habitat within the Survey Area (Menkhorst et al., 2017).
<i>Scolopacidae</i>	<i>Calidris ferruginea</i>	Curlew Sandpiper	CR, IA	CR, MI, MA	x	x	x	1		Medium	Nearest record 15 km NW of Survey Area (Department of Biodiversity Conservation and Attractions, 2021c). Suitable habitat within the Survey Area i.e. around lakes, dams (Morcombe, 2003).
<i>Scolopacidae</i>	<i>Calidris melanotos</i>	Pectoral Sandpiper	IA	MI, MA		x				Low	Survey Area is well outside of the distribution of this species Area (Atlas of Living Australia, 2022b). Some suitable habitat present in parts i.e. inland

Family	Scientific Name	Common Name	Conservation Status		Source					Likelihood of Occurrence	Justification
			State	Federal	NM	PM/ST	DBCA	DBCA 15 yrs	Field Survey		
											water bodies (Morcombe, 2003).
<i>Scolopacidae</i>	<i>Calidris ruficollis</i>	Red-necked Stint	IA	MI, MA	x		x	1		Low	Nearest record 15 km NW of Survey Area (Department of Biodiversity Conservation and Attractions, 2021c). No suitable habitat within the Survey Area i.e., mudflats (Morcombe, 2003).
<i>Scolopacidae</i>	<i>Tringa brevipes</i>	Grey-tailed Tattler	IA, P4	MI, MA	x		x	1		Low	Nearest record 20 km NE of Survey Area (Department of Biodiversity Conservation and Attractions, 2021c). No suitable habitat within the Survey Area, coastal in Australia (Menkhorst et al., 2017).
<i>Scolopacidae</i>	<i>Tringa glareola</i>	Wood Sandpiper	IA	MI, MA	x		x			Medium	Nearest record 30 km NE of the Survey Area (Department of Biodiversity Conservation and Attractions, 2021c). Suitable habitat within the Survey Area i.e., freshwater

Family	Scientific Name	Common Name	Conservation Status		Source					Likelihood of Occurrence	Justification
			State	Federal	NM	PM/ST	DBCA	DBCA 15 yrs	Field Survey		
											wetlands (Menkhorst et al., 2017).
<i>Scolopacidae</i>	<i>Tringa nebularia</i>	Common Greenshank	IA	MI, MA	x	x	x	2		Previously Recorded	Recent record within the Survey Area (Department of Biodiversity Conservation and Attractions, 2021c). Suitable habitat within the survey areas i.e. temporary inland wetlands (Morcombe, 2003).
<i>Threskiornithidae</i>	<i>Plegadis falcinellus</i>	Glossy Ibis	IA	MI, MA			x			Medium	Only record 27 km NE of the Survey Area in Kalgoorlie (Department of Biodiversity Conservation and Attractions, 2021c). Some suitable habitat present i.e. temporary wetlands (Morcombe, 2003).
MAMMALIAN											
<i>Dasyuridae</i>	<i>Dasyurus geoffroii fortis</i>	Western Quoll, Chuditch	VU	VU		x	x		x	Recorded	A scat was found within the Survey Area during the current survey, identified to be this species. Some suitable habitat present mallee

Family	Scientific Name	Common Name	Conservation Status		Source					Likelihood of Occurrence	Justification
			State	Federal	NM	PM/ST	DBCA	DBCA 15 yrs	Field Survey		
											shrubland (Van Dyck and Strahan, 2008).
Myrmecobiidae	<i>Myrmecobius fasciatus</i>	Numbat, Walpurti	EN	EN	x					Low	No nearby records (Atlas of Living Australia, 2022b). Some suitable habitat is present i.e. eucalypts and wandoo woodland (Van Dyck and Strahan, 2008). The only natural populations exist well outside the Survey Area in the far north of WA (Department of Biodiversity Conservation and Attractions, 2017b).
Thylacomyidae	<i>Macrotis lagotis</i>	Bilby, Dalgyte	VU	VU	x					Low	No nearby records (Atlas of Living Australia, 2022b). No suitable habitat is present (Van Dyck and Strahan, 2008).
INSECTS											
Lycaenidae	<i>Jalmenus aridus</i>	Inland Hairstreak	P1 (not WAM)		x		x			Medium	Nearest record 19 km NE of the Survey Area (Department of Biodiversity Conservation and Attractions, 2021c). Suitable habitat present within the Survey Area

Family	Scientific Name	Common Name	Conservation Status		Source					Likelihood of Occurrence	Justification
			State	Federal	NM	PM/ST	DBCA	DBCA 15 yrs	Field Survey		
											(Williams, Williams and Lundstrom, 1998)
Lycaenidae	<i>Ogyris subterrestris petrina</i>	Arid Bronze Azure Butterfly	CR (not WAM)	CR (not WAM)	x	x	x			Medium	No recent records (Department of Biodiversity Conservation and Attractions, 2021c). Suitable habitat present (smooth bark <i>Eucalyptus</i> sp.) (Department of Biodiversity Conservation and Attractions, 2020b).

5 Discussion

5.1 Flora and Vegetation

5.1.1 Flora Composition

The suite of flora taxa recorded during the survey is considered typical for the area (Beard 1976) and aligns with the database search results obtained and with previous surveys conducted around the Survey Area.

5.1.2 Survey Adequacy

The flora and vegetation survey effort was in accordance with the scope of works, and appropriate for a detailed flora and vegetation survey in the Eastern Goldfields region.

The Survey Area was sampled with 74 quadrats, 22 relevés and an additional 91 mapping notes. Of the 10 vegetation types defined, four were not sampled with three flora sites. Vegetation types Ec and EooEiiDs were sampled with two sites only due to limited distribution of the vegetation (<1% each). Vegetation types Sl, and Lake were sampled only once due to the landforms (clay and lake) being very limited in distribution.

The inventory of vascular flora was compiled using site data and opportunistic observations made while traversing between sites and during targeted searching within the Survey Area. The entire Survey Area was not systematically searched, and therefore additional flora taxa, and records of conservation significant flora and weed species may be recorded with additional survey effort.

5.1.3 Flora of Conservation Significance

No Threatened flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened Flora pursuant to the BC Act 2016 were recorded within the Survey Area.

Ten individuals of *Austrostipa blackii* (P3) were recorded from quadrat C1Q01, within vegetation type AcEoaDI. This vegetation type was sampled heavily, and no other records of the taxon were recorded. With more intensive surveys additional individuals may be recorded, as this vegetation type and landform (rocky hills) cover 13.1% of the Survey Area.

5.1.4 Likelihood of Occurrence

Of the 90 Priority flora identified by the database searches, only one was recorded from the Survey Area (*Austrostipa blackii* (P3)). Of the remaining 89 taxa, two were considered to retain a high likelihood of occurrence following the survey:

- *Acacia websteri* (P1): A tall shrub or tree is known only from the Bencubbin and Coolgardie-Kambalda areas, and grows mostly in red loam, sand, and clay in drainage depressions among shrubland and scrub. The habitat for this taxon is present within the Survey Area, and the closest location is <1 km from the survey boundary.

- *Eremophila veronica* (P3): A record of this erect shrub to 40cm high (80cm wide) was located 500 m from the Survey Area, in vegetation similar in appearance to that within the survey boundary. The record was noted as growing with *E. salubris*, *A. burkittii*, and *Cylindropuntia tunicata*.

A further 18 taxa were considered to have a medium likelihood of occurrence due to presence of habitat and records within 15 km of the Survey Area boundary. The remaining taxa were considered to have a low likelihood of occurrence.

5.1.5 Introduced Flora

Thirteen weed species were recorded in the Survey Area, of which one, **Opuntia stricta* (Common Prickly Pear), is a Declared Pest and listed as a WoNS.

Weed diversity and population abundance are consistent with the region and land use (mining operations, broadacre cropping and sheep farming).

Weed species richness and abundance was greatest in previously cleared areas such as old drill pads/ excavation works and associated tracks. Weed species, particularly **Opuntia stricta* were present in relatively high abundance near Great Eastern Highway. The publicly accessible semi-pool 'Coolgardie Gorge' contained dense weed numbers along the edge and in the immediate surrounds.

5.1.6 Unconfirmed Flora

Eighteen specimens collected during the field survey were sterile and could not be confidently identified beyond genus level. None of these were analogous to Priority flora taxa identified by the database searches.

5.1.7 Vegetation Types

No vegetation representative of any TECs or PECs was recorded in the Survey Area.

Mapping reliability across the survey area was high, and the majority of the Survey Area was traversed on foot. The plains through the majority of the Survey Area showed a mosaic of different *Eucalyptus* spp. that could not be easily separated via quadrating or aerial imagery. However, *E. salmonophloia* was scattered across the majority of the plains, with *E. celastroides*, *E. clelandiorum*, and *E. torquata* at varying densities across the plains. This is common across the region, as underlying geology affects the vegetation on a fine scale. The Survey Area was dominated by these plains, along with rocky hills dominated by *Acacia collegialis* tall shrubs. While this vegetation type AcEoaDI rocky hills did support *Austropstipa blackii* (P3), only one population was recorded through 21 quadrats in the vegetation. As such it was not considered to be a distinctive habitat of the taxon, and not considered to be vegetation of local significance.

Coolgardie Gorge is a natural semi-pool landform present within the Survey Area, which is also a public recreation area, as such it contains many introduced (weed) taxa. The landform is limited in size, with the vegetation unique and restricted to a small radius around the semi-pool.

Numerous patches within the Survey Area were considered either recently or historically cleared. Some of these historically cleared areas contained some regrowing native and weed taxa, however, were still considered to be cleared as they were predominantly bare, and any native taxa did not represent the surrounding vegetation. One small area of claypan vegetation was recorded and sampled with a single quadrat. After recent rains, this claypan landform may contain an increased load of annual and cryptic taxa.

5.2 Vertebrate Fauna

5.2.1 Fauna Habitat

The five broad fauna habitats identified within the Survey Area are typical of the Coolgardie bioregion and consistent with habitats identified by previous studies in the region (Terrestrial Ecosystems, 2018; Phoenix Environmental Sciences, 2019; Strategen Environmental, 2019; Biostat Pty Ltd, 2020). Of the habitats within the Survey Area, the *Eucalyptus* Woodlands, *Acacia* Shrublands and Open Water habitats, particularly the semi-permanent pool at Coolgardie Gorge, represent the most value to the overall fauna assemblage within the Survey Area. The *Eucalyptus* Woodlands and the *Acacia* Shrubland habitats are valuable due to the variety of micro habitats present. Peeling bark, woody debris, leaf litter and hollow logs were observed throughout these habitat types. The dense understorey observed in these habitat types may provide refuge and shelter for a variety of mammals, reptiles, and birds. Specifically, these habitat types may provide suitable breeding and nesting habitat for the Malleefowl (*Leipoa ocellata*) and foraging habitat for the Western Quoll, Chuditch (*Dasyurus geoffroii fortis*).

The Open Water habitat provides an important water source for fauna within the Survey Area and is particularly important for water birds, including several significant species. The Open Water habitat at Coolgardie Gorge is surrounded by vegetation that provides potential foraging, roosting, and nesting habitat for a wide variety of fauna taxa. Old mine pits throughout the Survey Area may have water present, however it will be of less value to most fauna species due to a lack of surrounding vegetation.

The Rocky Slopes habitat contains crevices that may provide refuge and shelter for small fauna taxa. This habitat type generally lacks the dense understory found in the *Eucalyptus* Woodlands and the *Acacia* Shrubland habitats, making it less suitable for the Malleefowl and its slope reduces its value as Malleefowl nesting habitat.

Cleared Areas provide limited habitat value for fauna; however, some small mammals and reptiles may use the rocky crevices within the steep walls of mining pits and the low isolated shrubs occasionally found in other Cleared Areas for shelter and foraging.

The habitat condition varied widely throughout the Survey Area from highly degraded to high quality. The most common forms of disturbance included previous mining activity, litter, and vehicle tracks. Species with a limited dispersal capability may be restricted by these impacts, whilst movements of birds, larger reptiles, and mammals between surrounding habitats are unlikely to be severely impeded by these disturbances.

5.2.2 Conservation Significant Fauna

5.2.2.1 Recorded

Western Quoll, Chuditch (*Dasyurus geoffroii fortis*), Vulnerable under the BC Act and EPBC Act

The Chuditch inhabits areas dominated by sclerophyll forest or drier woodland, heath and mallee shrubland (Van Dyck and Strahan, 2008). The species is generally highly mobile and uses bush remnants as corridors (Woinarski, Burbidge and Harrison, 2014). The Chuditch is a largely nocturnal animal, feeding on a carnivorous diet of mammals, birds, lizards, and frogs. Although they have been recorded foraging during the day at particular times such as during the breeding season or when cold and wet weather restricts their nocturnal movements (Van Dyck and Strahan, 2008). Most diurnal nesting sites in sclerophyll forest consist of hollow logs or earth burrows, although bandicoot nests and hollow tree bases may be used (Van Dyck and Strahan, 2008). The Chuditch was abundant prior to European settlement, and it is now largely restricted to the south-west of Western Australia, with small numbers in the Midwest, Wheatbelt and South Coast regions (Department of Biodiversity Conservation and Attractions, 2017a).

Chuditch scat was recorded within the Survey Area. Of the habitat types present with the Survey Area the *Eucalyptus* Woodland and *Acacia* Shrubland present the most value to this species. These habitats contain mallee woodland and shrubland, which the Chuditch often inhabits as well hollow logs and tree bases which are used for denning (Van Dyck and Strahan, 2008). The suitability of these habits likely varies with the degree of disturbance which may alter prevalence of both denning sites and availability of prey.

5.2.2.2 High Likelihood

Malleefowl (*Leipoa ocellata*), Vulnerable under the BC Act and EPBC Act

The Malleefowl is found in semi-arid to arid shrublands and low woodlands, especially those dominated by mallee and/or *Acacia*. The species nests in large mounds of dirt and leaf litter up to five metres wide and one metre tall (Menkhorst et al., 2017). Sandy substrates and abundance of leaf litter are required for breeding (Department of the Environment and Energy, 2018). Densities of the birds are generally greatest in areas of higher rainfall and on more fertile soils where there is an abundance of food plants.

The Malleefowl has recently been recorded within 1 km of the Survey Area and is therefore highly likely to use suitable habitat within the Survey Area (Department of Biodiversity Conservation and Attractions, 2022). The *Eucalyptus* Woodland and *Acacia* Shrubland habitats constitute suitable habitat for the taxon. No mounds, tracks, or other signs of the taxon observed during the field survey. When present, these signs are obvious and detectable (National Malleefowl Recovery Team, 2016). While breeding may occur in the Survey Area, it is unlikely that high densities of breeding individuals are present.

Common Sandpiper (*Actitis hypoleucos*), International Agreement under the BC Act and Migratory and Marine under the EPBC Act.

The Common Sandpiper typically feeds on mollusks and crustaceans as well as a variety of insects. It is a migratory species that uses varied coastal and interior wetlands including narrow muddy edges of billabongs, river pools, mangroves, among rocks and snags, reefs or rocky beaches (Morcombe, 2003). It migrates from mid-northern latitudes of Asia (Menkhorst *et al.*, 2017) and likely breeds in the Russian far east (Pizzey and Knight, 2001).

The Common Sandpiper was not recorded during the current field survey, however it has been recorded within the Survey Area previously (Department of Biodiversity Conservation and Attractions, 2022). The taxon may use the Open Water habitat within the Survey Area, particularly the Coolgardie Gorge for foraging and roosting.

Common Greenshank (*Tringa nebularia*), International Agreement under the BC Act and Migratory and Marine under the EPBC Act.

The Common Greenshank is a migratory species to Australia that typically breeds in Norway (BirdLife International, 2016). The species is found in a wide variety of wetlands from coastal to freshwater, where it wades in shallow water foraging for prey, often lunging or probing for fish and invertebrates (Pizzey and Knight, 2001; BirdLife International, 2016; Menkhorst *et al.*, 2017).

The Common Greenshank was not recorded during the current field survey, however, it has been recorded within the Survey Area previously (Department of Biodiversity Conservation and Attractions, 2022). The taxon may use the Open Water habitat within the Survey Area, particularly the Coolgardie Gorge for foraging and roosting.

5.2.2.3 Medium Likelihood

Sharp-tailed Sandpiper (*Calidris acuminata*), International Agreement under the BC Act and Migratory and Marine under the EPBC Act.

The Sharp-tailed Sandpiper is a small-medium migratory wader, nesting in the northern Siberian Tundra and is one of the most common shorebirds to inhabit in fresh and saline wetlands occurring inland in Australia (Menkhorst *et al.*, 2017). In Western Australia there are scattered records of the species occurring along the Nullarbor Plain and the southern areas of the Great Victoria Desert. They are widespread from Cape Arid to Carnarvon, around coastal and subcoastal plains of the Pilbara Region to south-west and east Kimberley (Pizzey and Knight,

2001). It also forages in grasslands and tidal areas. The species typically prefers muddy edges of shallow fresh or brackish wetlands, with inundated or emergent sedges, grass, saltmarsh or other low vegetation (Pizzey and Knight, 2001).

The Sharp-tailed Sandpiper was not recorded during the field survey. The nearest record was 15 km northwest of the Survey Area (Department of Biodiversity Conservation and Attractions, 2022). The taxon may use the Open Water habitat within the Survey Area, particularly the Coolgardie Gorge for foraging and roosting.

Curlew Sandpiper (*Calidris ferruginea*), Critically Endangered, International Agreement under the BC Act and Critically Endangered, Migratory and Marine under the EPBC Act.

The Curlew Sandpiper is a small, slim sandpiper that is most commonly found on large tidal flats, occasionally using brackish and freshwater wetland systems (Menkhorst *et al.*, 2017). They typically forage on invertebrates throughout mudflats and nearby shallow water. The species is migratory and nests in Arctic Siberia, and in Western Australia are widespread around coastal and subcoastal plains from Cape Arid to the south-west Kimberley (Pizzey and Knight, 2001).

The Curlew Sandpiper was not recorded during the field survey. The nearest record was 15 km northwest of the Survey Area (Department of Biodiversity Conservation and Attractions, 2022). The taxon may use the Open Water habitat within the Survey Area, particularly the Coolgardie Gorge for foraging and roosting.

Wood Sandpiper (*Tringa glareola*), International Agreement under the BC Act and Migratory and Marine under the EPBC Act.

The Wood Sandpiper is a small, thin wader that uses well-vegetated, shallow, freshwater wetlands such as swamps, billabongs, lakes, pools and waterholes (Menkhorst *et al.*, 2017). The species is generally associated with emergent aquatic plants or grass, and they forage on moist or dry mud at the edges of wetlands. The Wood Sandpiper is a migratory species, breeding in the subarctic Siberia with some individuals migrating to Australia (Menkhorst *et al.*, 2017). In Western Australia the species is widespread but scattered in most regions (Pizzey and Knight, 2001).

The Wood Sandpiper was not recorded during the field survey. The nearest record was 30 km northeast of the Survey Area (Department of Biodiversity Conservation and Attractions, 2022). The taxon may use the Open Water habitat within the Survey Area, particularly the Coolgardie Gorge for foraging and roosting.

Glossy Ibis (*Plegadis falcinellus*), International Agreement under the BC Act and Migratory and Marine under the EPBC Act.

The preferred foraging and breeding habitat of the Glossy Ibis includes fresh water marshes at the edges of lakes and rivers, lagoons, flood-plains, wet meadows, swamps, reservoirs, sewage ponds, rice-fields and cultivated areas under irrigation (Marchant and Higgins, 1990; del Hoyo, Elliot and Sargatal, 1992). The Glossy Ibis builds a platform nest of sticks in trees or shrubs above

water and typically nests in colonies (Pizzey and Knight, 2013). The distribution of the Glossy Ibis is generally east of the Kimberley in Western Australia and Eyre Peninsula in South Australia. The species is also known to be patchily distributed in the rest of Western Australia (Department of the Environment and Energy, 2020).

The Glossy Ibis was not recorded during the field survey, however, it has been recorded 27 km northeast of the Survey Area in Kalgoorlie (Department of Biodiversity Conservation and Attractions, 2022). The taxon may use the Open Water habitat within the Survey Area, particularly the Coolgardie Gorge for foraging and roosting.

5.3 Invertebrates

Although outside the scope of this report, two conservation significant invertebrates were identified as potentially occurring within the Survey Area.

Arid Bronze Azure Butterfly (*Ogyris subterrestris petrina*), Critically Endangered under the BC Act and EPBC Act.

Following the extirpation of the only known population in the early 1990s, the Arid Bronze Azure Butterfly (ABAB) was rediscovered at Barbalin Nature Reserve in 2006. The ABAB can only reproduce where nests of the sugar ant, *Camponotus* sp. nr. *terebrans* are present. The ants protect the larvae from predators and in return, the ants feed on secretions produced by the ABAB larvae. Unlike other species in this genus, the ABAB larva do not eat vegetation and are entirely dependent upon the host ant. The ABAB larvae require large ant colonies that are typically found at the base of many species of smooth-barked eucalypts including *Eucalyptus salubris* and *E. salmonophloia* (Department of Biodiversity Conservation and Attractions, 2020b).

The presence of multiple smooth-barked eucalypt species within the known distribution of the host ant *Camponotus* sp. nr. *terebrans* suggests that suitable habitat for the ABAB may occur within the survey area. The presence of potentially suitable ABAB habitat within the range of the host ant requires surveys to determine the presence and density of *Camponotus* sp. nr. *terebrans* colonies (Department of Biodiversity Conservation and Attractions, 2020a, 2020b). Consequently, a targeted survey for host ant colonies was conducted in Dec 2021. The results of this survey are presented in a separate report in preparation (360 Environmental 2022, in prep).

Inland Hairstreak (*Jalmenus aridus*), Priority 1 under the BC Act.

Jalmenus aridus is one of ten currently recognised species in the genus *Jalmenus*, which is found only in Australia. *Jalmenus* species feed openly on the foliage of their respective host plants, and all are attended by specific ant species. *Jalmenus aridus* is attended by the ant species *Froggattella kirbii* (Sands and New, 2002). *Jalmenus aridus* is protected by the ants from predators and parasitoids and the butterfly caterpillars reward the ants with sweet liquid produced in special organs.

The butterfly is only present in its adult form for short periods of time (perhaps only two to three weeks at a given site). Timing of adult emergence is linked to rainfall patterns, plant growth stages and other ecological conditions with most likely flight times from mid-October to mid-November.

The ant, *Froggattella kirbii* is found from near Perth to the East coast of Australia and is associated with two known host plants. One host plant, *Senna nemophila* (*artemisioides*), is found over most of central and eastern WA while the other known host plant, *Acacia tetragonophylla*, is found almost everywhere in WA except the very far north and far south.

During the surveys, it was observed that suitable habitat was present within the Survey Area. Additional targeted surveys will be required to confirm the presence of *Jalmenus aridus* within the Survey Area.

6 Conclusion

Flora and Vegetation

- No Threatened Listed flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened/Declared Rare Flora pursuant to the BC Act 2016 were recorded
- Ten individuals of *Austrostipa blackii* (P3), were recorded in one quadrat (C1Q01)
- Thirteen introduced species were recorded during the survey, of which one, **Opuntia stricta*, is a Declared Pest and listed as a WoNS
- Ten vegetation types were mapped within the Survey Area, none of which were analogous to conservation significant ecological communities.

Vertebrate Fauna

- Five fauna habitats were mapped, of which the *Eucalyptus* Woodland, *Acacia* Shrubland, and Open Water habitat types represent the most value to conservation significant fauna and overall fauna assemblages. A naturally occurring pool at Coolgardie Gorge was of particularly value to water birds and to the overall fauna assemblage.
- One conservation significant species, the Western Quoll, Chuditch (*Dasyurus geoffroii fortis*), which is listed as Vulnerable under the BC Act and EPBC Act, was recorded within the Survey Area. Chuditch scat was observed during the field survey.
- Seven introduced species were recorded during the survey, Goat (*Capra hircus*), European Cattle (*Bos primigenius taurus*), Dog/Dingo (*Canis familiaris*), Red fox (*Vulpes vulpes*), Horse (*Equus caballus*), Cat (*Felis catus*) and Rabbit (*Oryctolagus cuniculus*).
- One significant fauna species, the Western Quoll, Chuditch (*Dasyurus geoffroii fortis*) which is listed as Vulnerable under the BC Act and EPBC Act, was recorded within the Survey Area based on a scat observed during the field survey.
- Although outside the scope of this report, potential habitat for Arid Bronze Azure Butterfly (*Ogyris subterrestris petrina*), which is listed as Critically Endangered under the BC Act and EPBC Act, and the Inland Hairstreak butterfly (*Jalmenus aridus*), which is listed as Priority 1 by the DBCA, was observed within the Survey Area.

7 Report Disclaimer

This report is produced strictly in accordance with the scope of services set out in the contract or otherwise agreed in accordance with the contract. 360 Environmental makes no representations or warranties in relation to the nature and quality of soil and water other than the visual observation and analytical data in this report.

In the preparation of this report, 360 Environmental has relied upon documents, information, data, and analyses ('client's information') provided by the client and other individuals and entities. In most cases where client's information has been relied upon, such reliance has been indicated in this report. Unless expressly set out in this report, 360 Environmental has not verified that the client's information is accurate, exhaustive, or current and the validity and accuracy of any aspect of the report including, or based upon, any part of the client's information is contingent upon the accuracy, exhaustiveness, and currency of the client's information. 360 Environmental shall not be liable to the client or any other person in connection with any invalid or inaccurate aspect of this report where that invalidity or inaccuracy arose because the client's information was not accurate, exhaustive, and current or arose because of any information or condition that was concealed, withheld, misrepresented, or otherwise not fully disclosed or available to 360 Environmental.

Aspects of this report, including the opinions, conclusions, and recommendations it contains, are based on the results of the investigation, sampling and testing set out in the contract and otherwise in accordance with normal practices and standards. The investigation, sampling and testing are designed to produce results that represent a reasonable interpretation of the general conditions of the site that is the subject of this report. However, due to the characteristics of the site, including natural variations in site conditions, the results of the investigation, sampling and testing may not accurately represent the actual state of the whole site at all points.

It is important to recognise that site conditions, including the extent and concentration of contaminants, can change with time. This is particularly relevant if this report, including the data, opinions, conclusions, and recommendations it contains, are to be used a considerable time after it was prepared. In these circumstances, further investigation of the site may be necessary.

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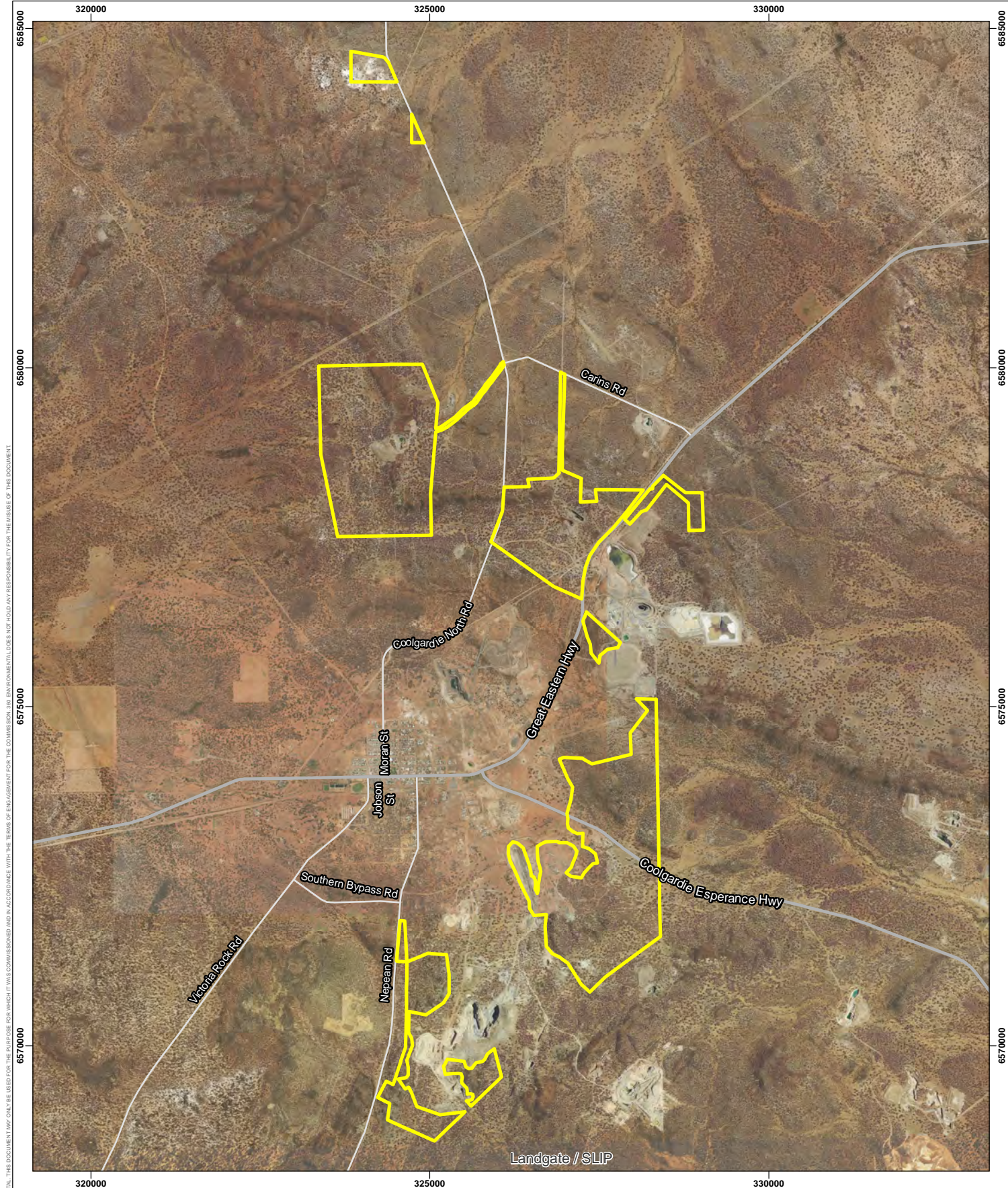
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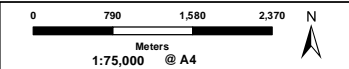
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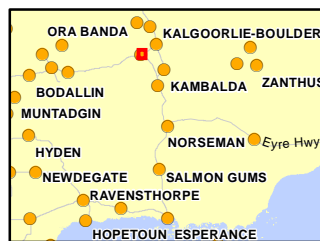
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-  State Road

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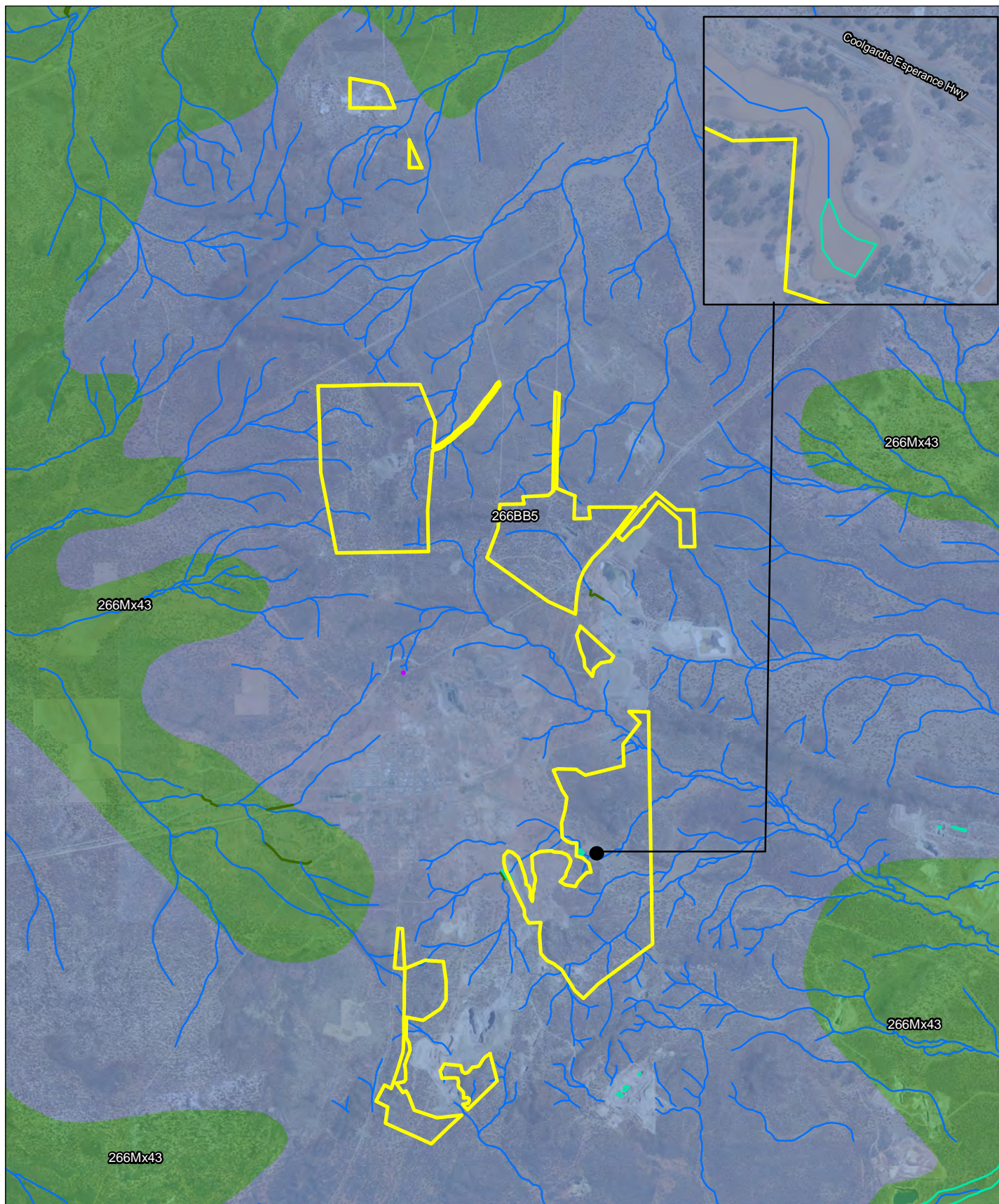
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Figure 1 Survey Area



Legend

Soil Land System

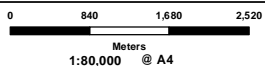
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- 266Mx43

Hydrography

- Watercourse - minor
- Drain - major
- Lake
- Water Reservoir
- Survey Area

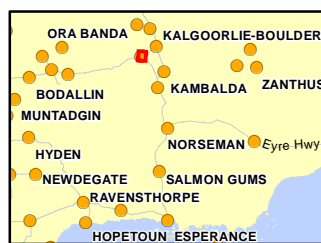
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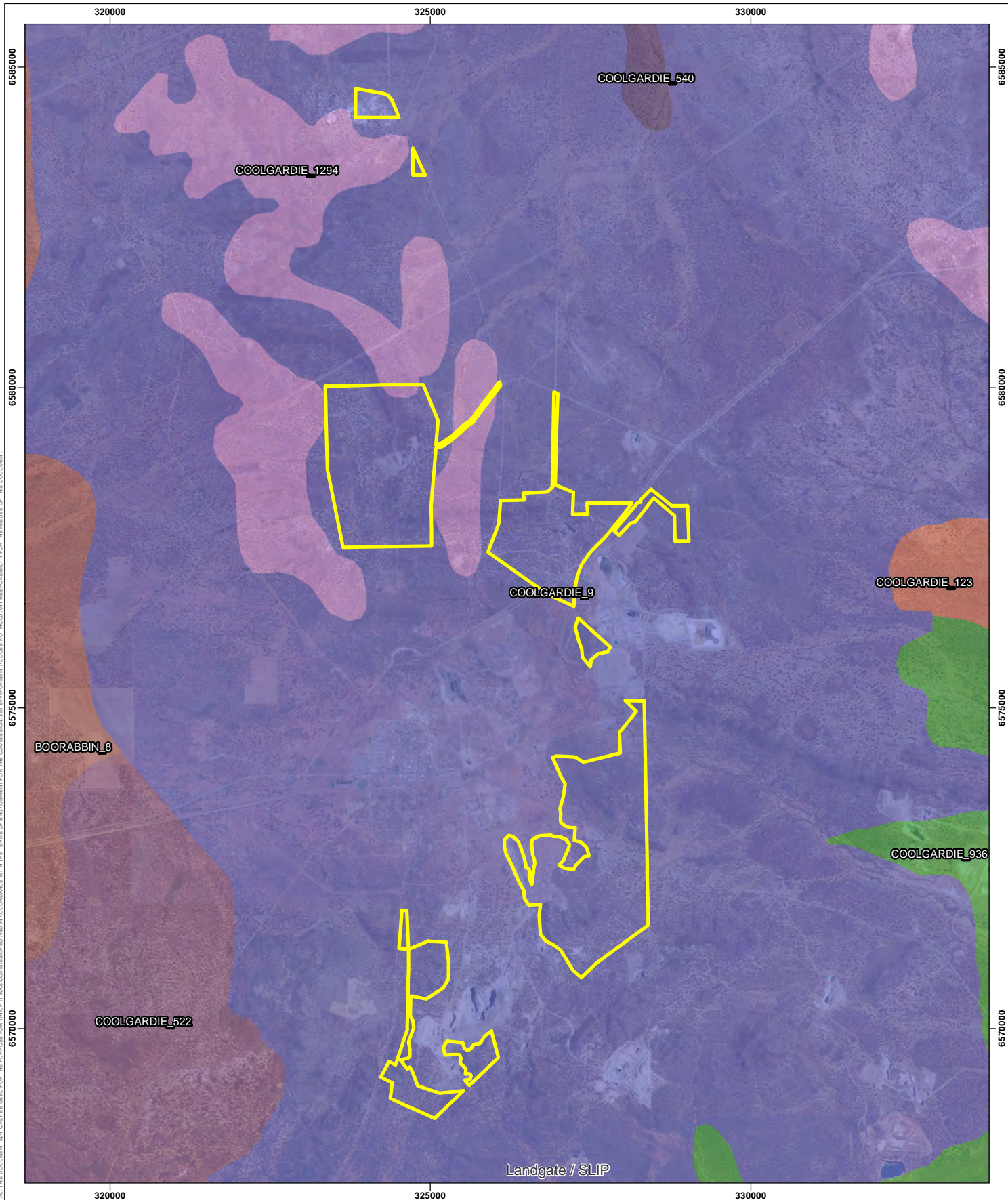
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Figure 2
Soil Landscapes and Land Systems and Hydrography



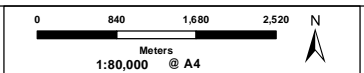
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 Survey Area

Broad Vegetation Types

-  BOORABBIN_8
-  COOLGARDIE_123
-  COOLGARDIE_1294
-  COOLGARDIE_522
-  COOLGARDIE_540
-  COOLGARDIE_9
-  COOLGARDIE_936

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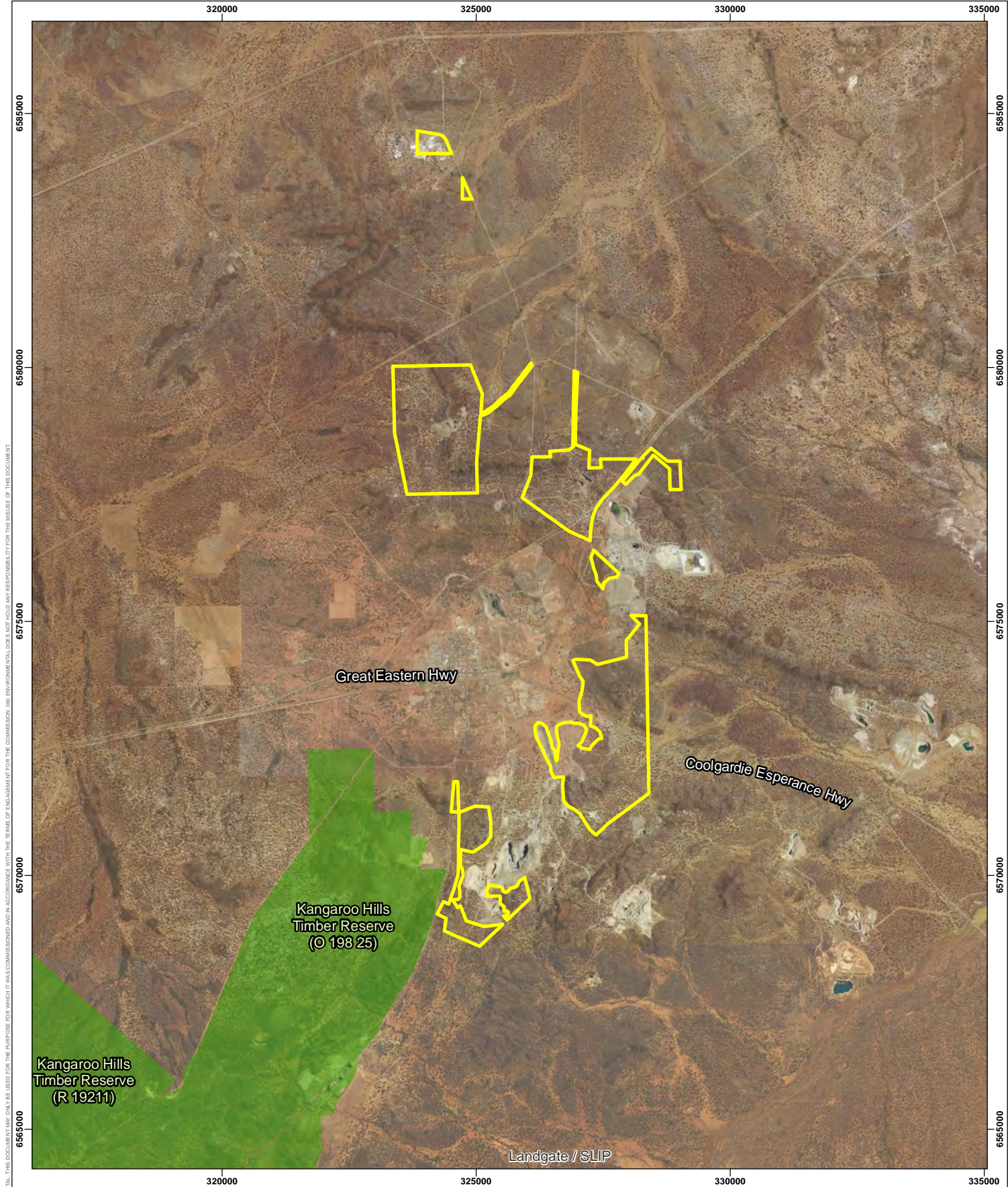
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Figure 3
Broad Vegetation Types

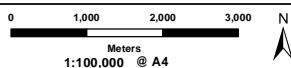


Legend

- Survey Area
- DBCA Managed Lands and Waters**
- DBCA Managed Land

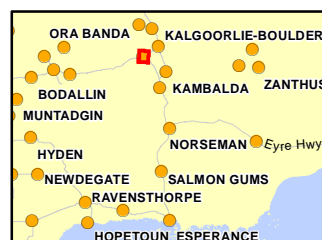
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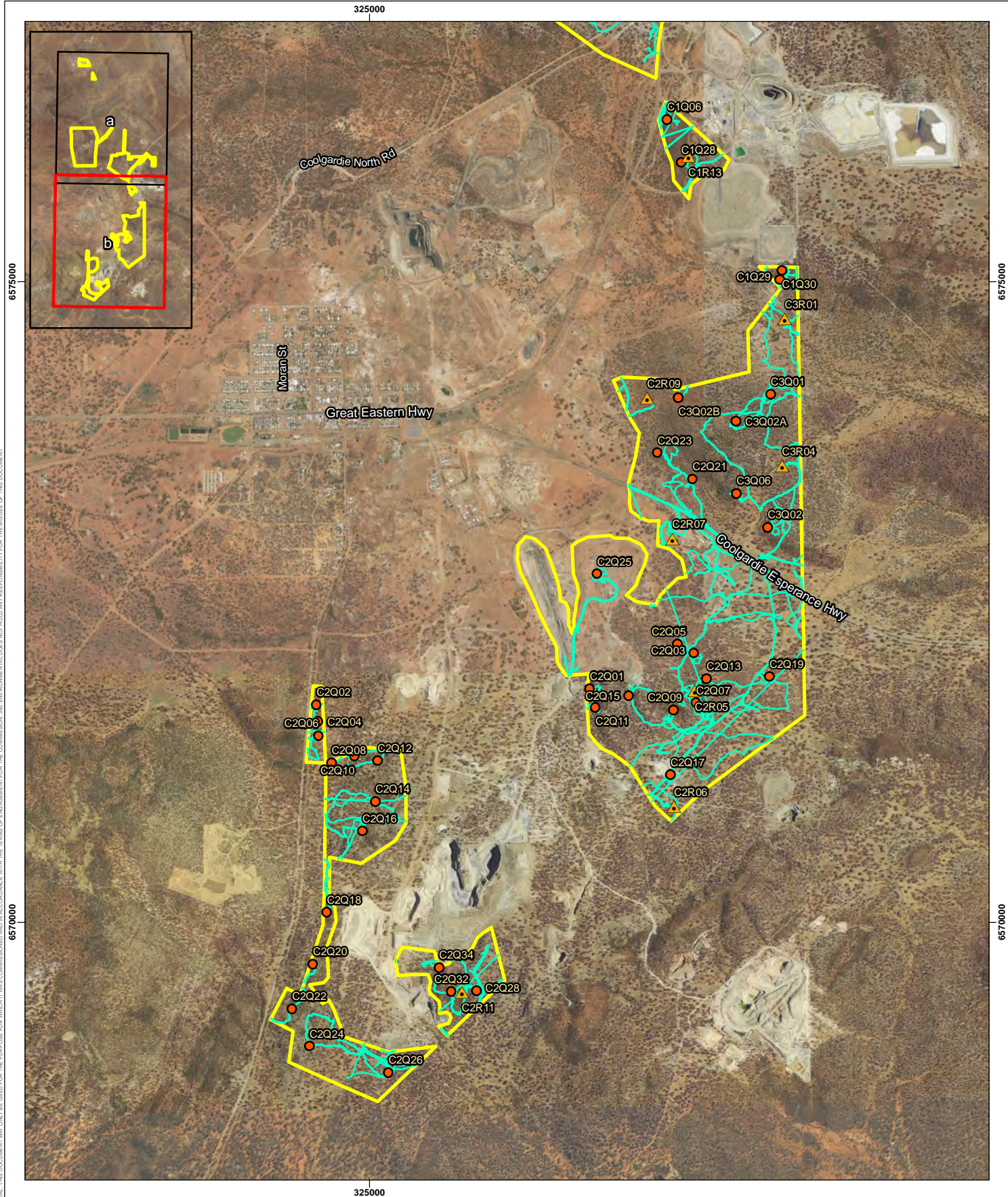
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Figure 4
Conservation Areas



Legend

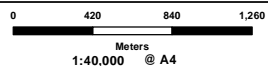
- Survey Area
- GPS Tracks

Sample Sites

- Quadrat
- ▲ Relve

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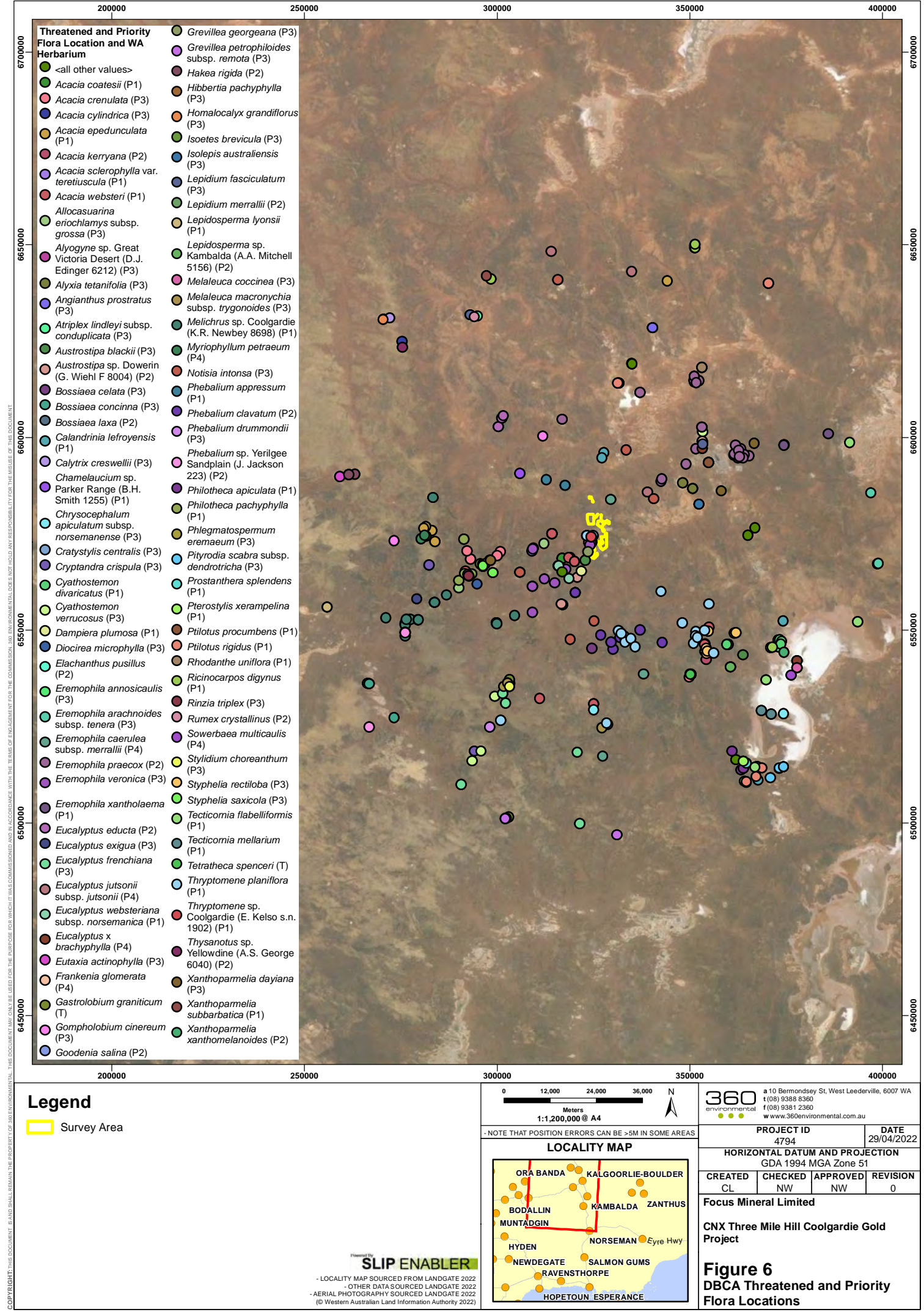
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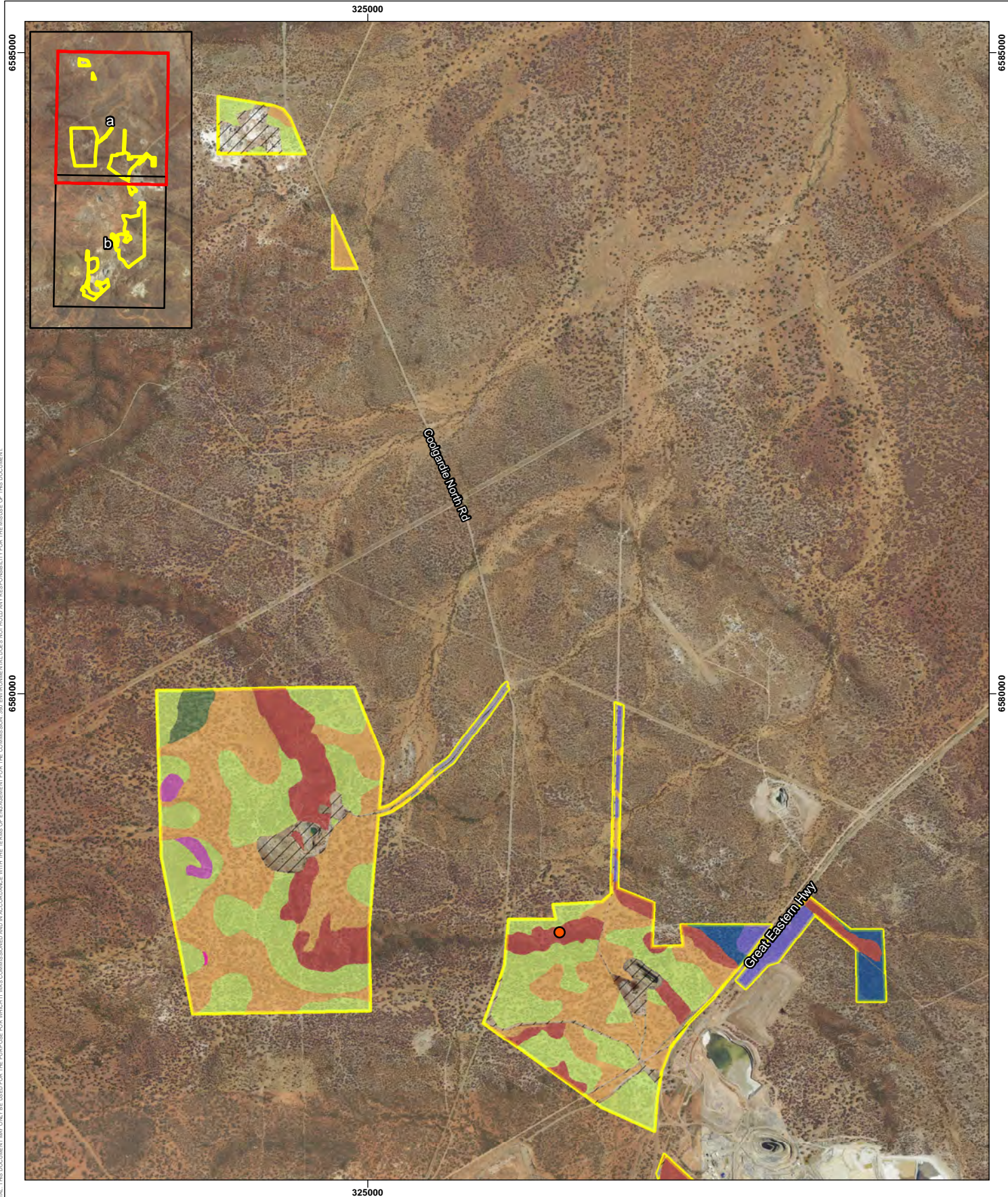
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Figure 5b
Survey Effort





Legend

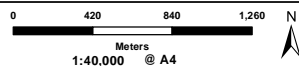
 Survey Area ● *Austrostipa blackii* (P3)

Vegetation Types

AcEoaDI
 Ec
 EgAhSaf
 EooEiiDs
 EsEiiAv
 EspEiiSaa
 EtEaEpa
 SI
 Cleared

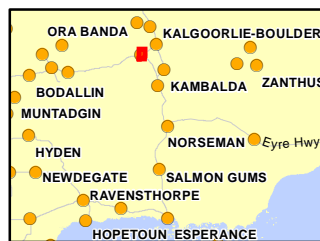
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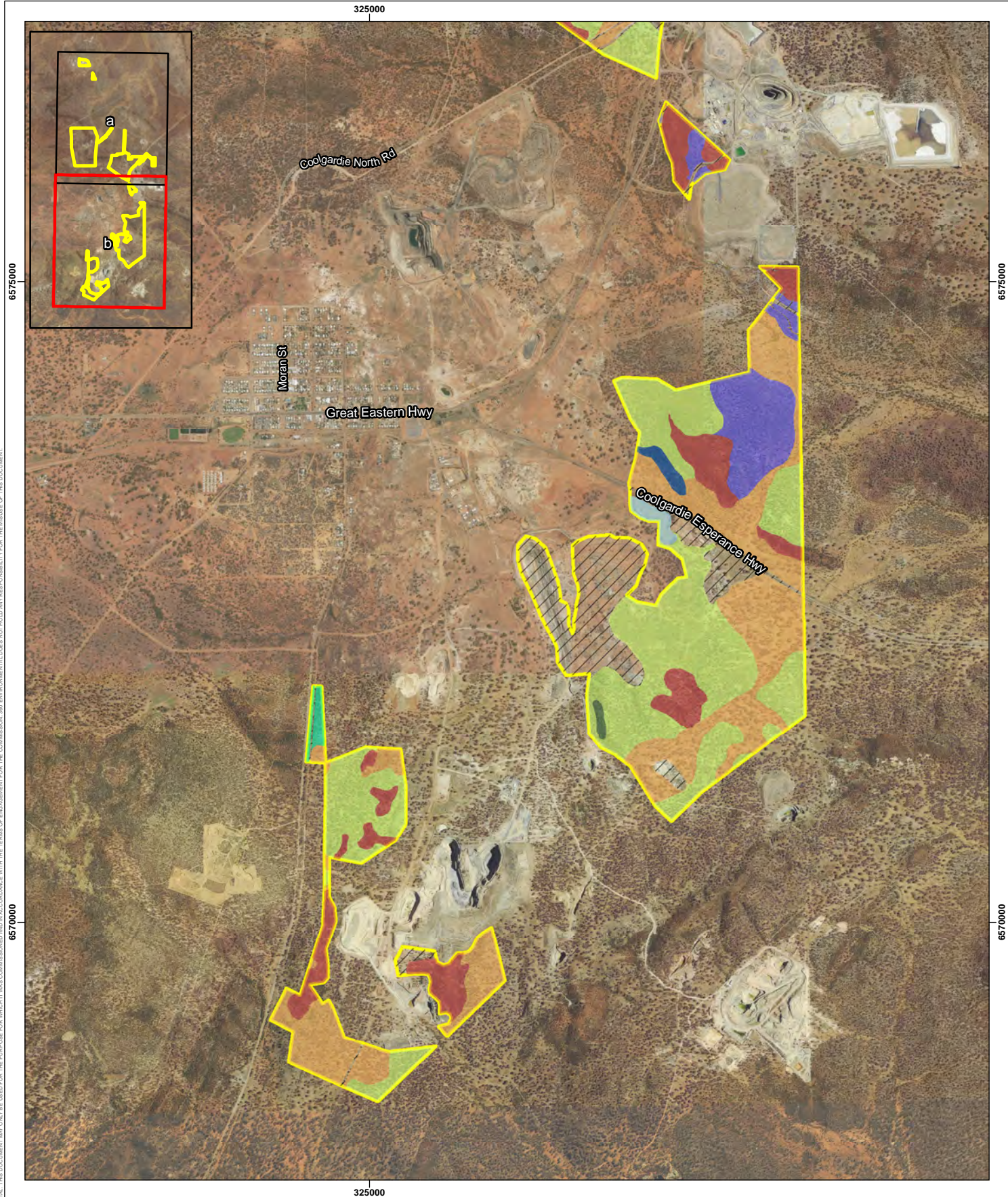
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Figure 7a
Vegetation Types

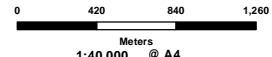


Legend

- Survey Area**
- Vegetation Types**
- AcEoaDI
 - EgAhSaf
 - EooEiiDs
 - ErMhOm
 - EsEiiAv
 - EsppEiiSaa
 - EtEaEpa
 - Lake
 - /// Cleared

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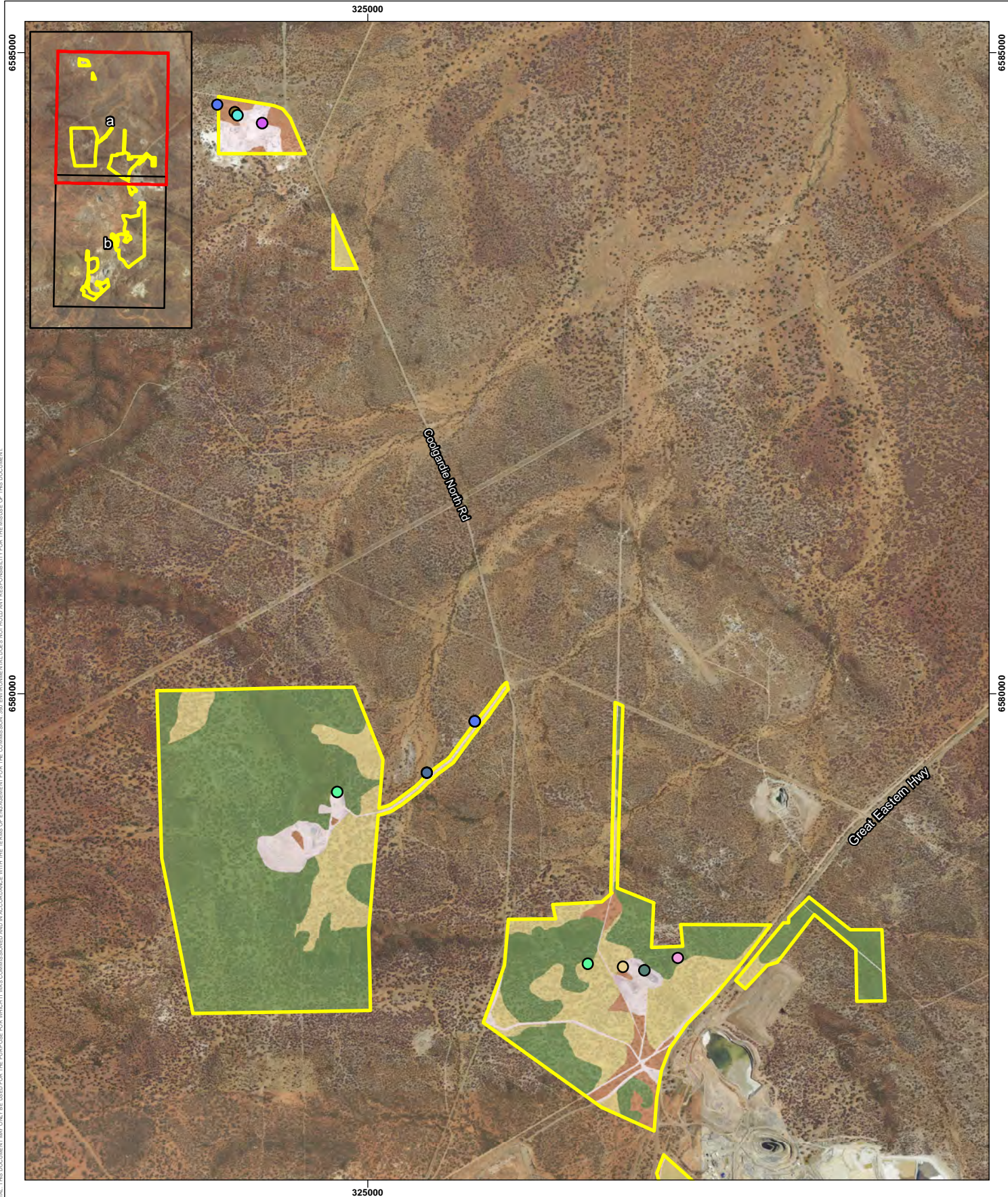
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Figure 7b
Vegetation Types



Legend

Weed Species

- Agave americana*
- Carrichtera annua*
- Centaurea melitensis*
- Crassula ovata*
- Nicotiana glauca*
- Oligocarpus calendulaceus*
- Rumex vesicarius*
- Salvia verbenaca*
- Schinus molle* var. *areira*

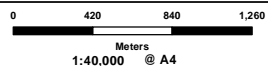
Survey Area

Vegetation Condition

- Excellent
- Very Good
- Good
- Completely Degraded

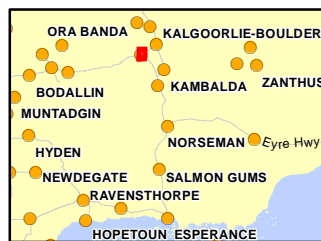
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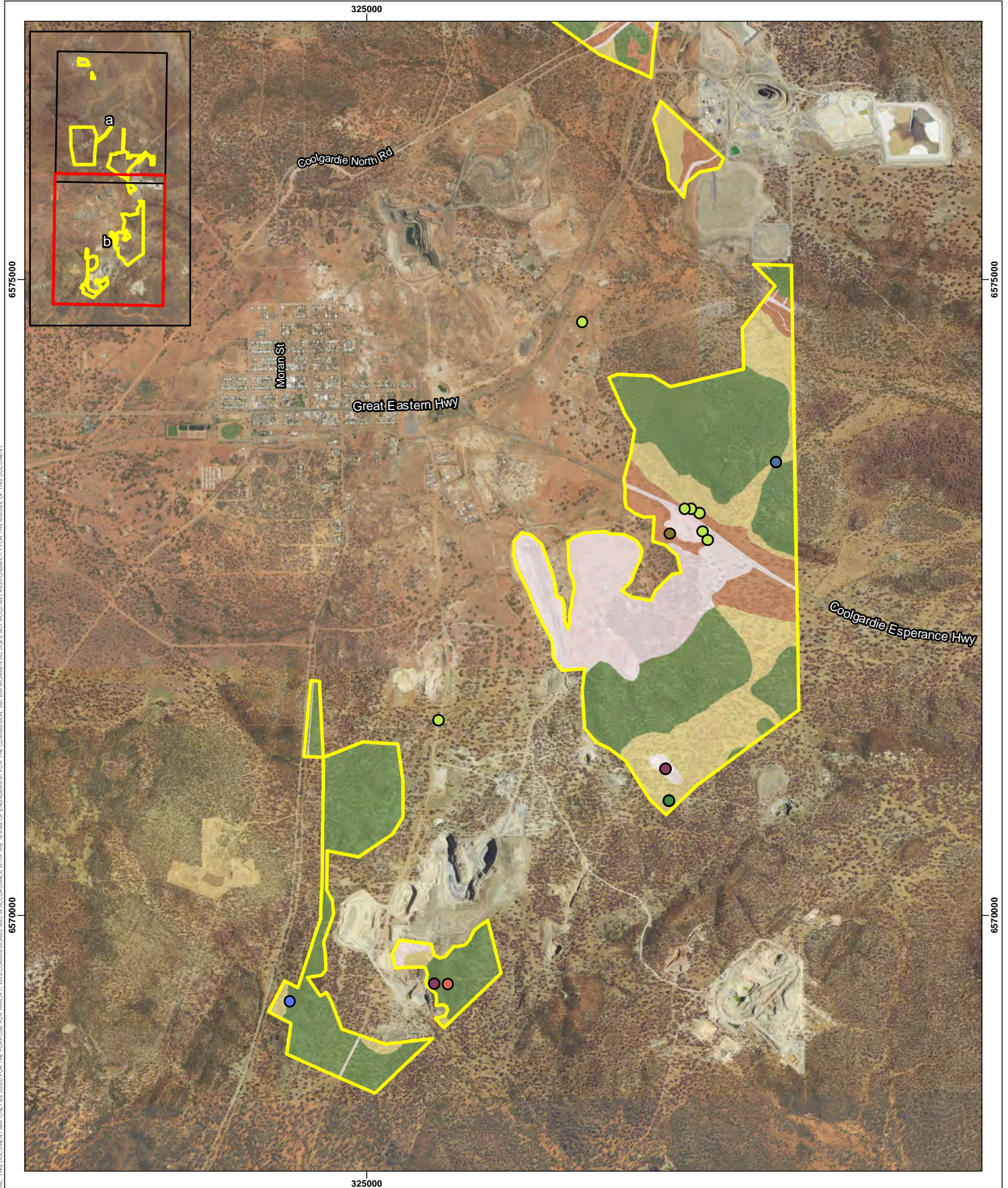
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CL	NW	NW	0

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CNX Three Mile Hill Coolgardie Gold Project

Figure 8a
Vegetation Condition



Legend

Weed Species

- *Asphodelus fistulosus*
- *Carrichtera annua*
- *Centaurea melitensis*
- *Euphorbia drummondii*
- *Heliotropium europaeum*
- *Oligocarpus calendulaceus*
- *Opuntia stricta*
- *Salvia verbenaca*
- *Schinus molle* var. *areira*
- *Sonchus asper*

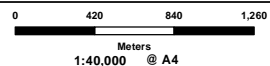
Survey Area

Vegetation Condition

- Excellent
- Very Good
- Good
- Completely Degraded

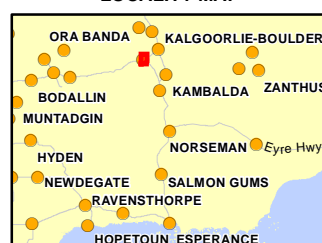
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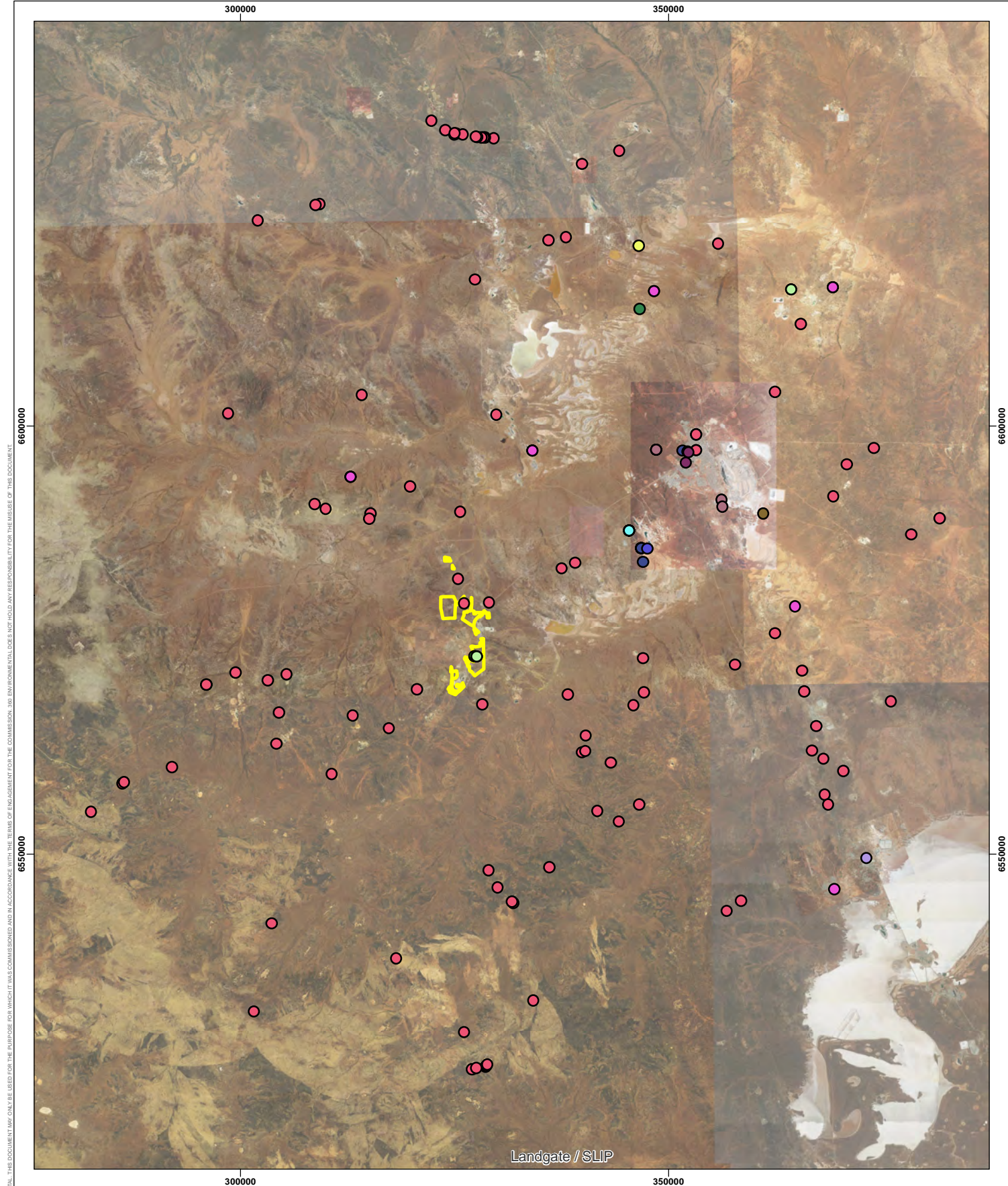
HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 51

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CL	NW	NW	0

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Figure 8b
Vegetation Condition



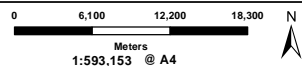
Legend

Survey Area

Threatened and Priority Fauna Records

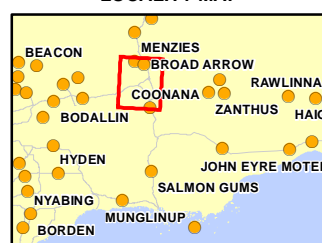
- | | |
|---|---|
| ● A Fairy Shrimp (Carnavon to Kalgoorlie) (P3) | ● Glossy Ibis (MI) |
| ● Arid Bronze Azure Butterfly (CR) | ● Grey-tailed Tattler (P4) |
| ● Carnaby's Cockatoo (EN) | ● Hooded plover, hooded dotterel (P4) |
| ● Chuditch, Western Quoll (VU) | ● Inland Hairstreak, Desert Blue Butterfly (P1) |
| ● Common Greenshank, Greenshank (MI) | ● Malleefowl (VU) |
| ● Common Sandpiper (MI) | ● Red-necked Stint (MI) |
| ● Curlew Sandpiper (CR) | ● Sanderling (MI) |
| | ● Sharp-tailed Sandpiper (MI) |
| | ● Wood Sandpiper (MI) |

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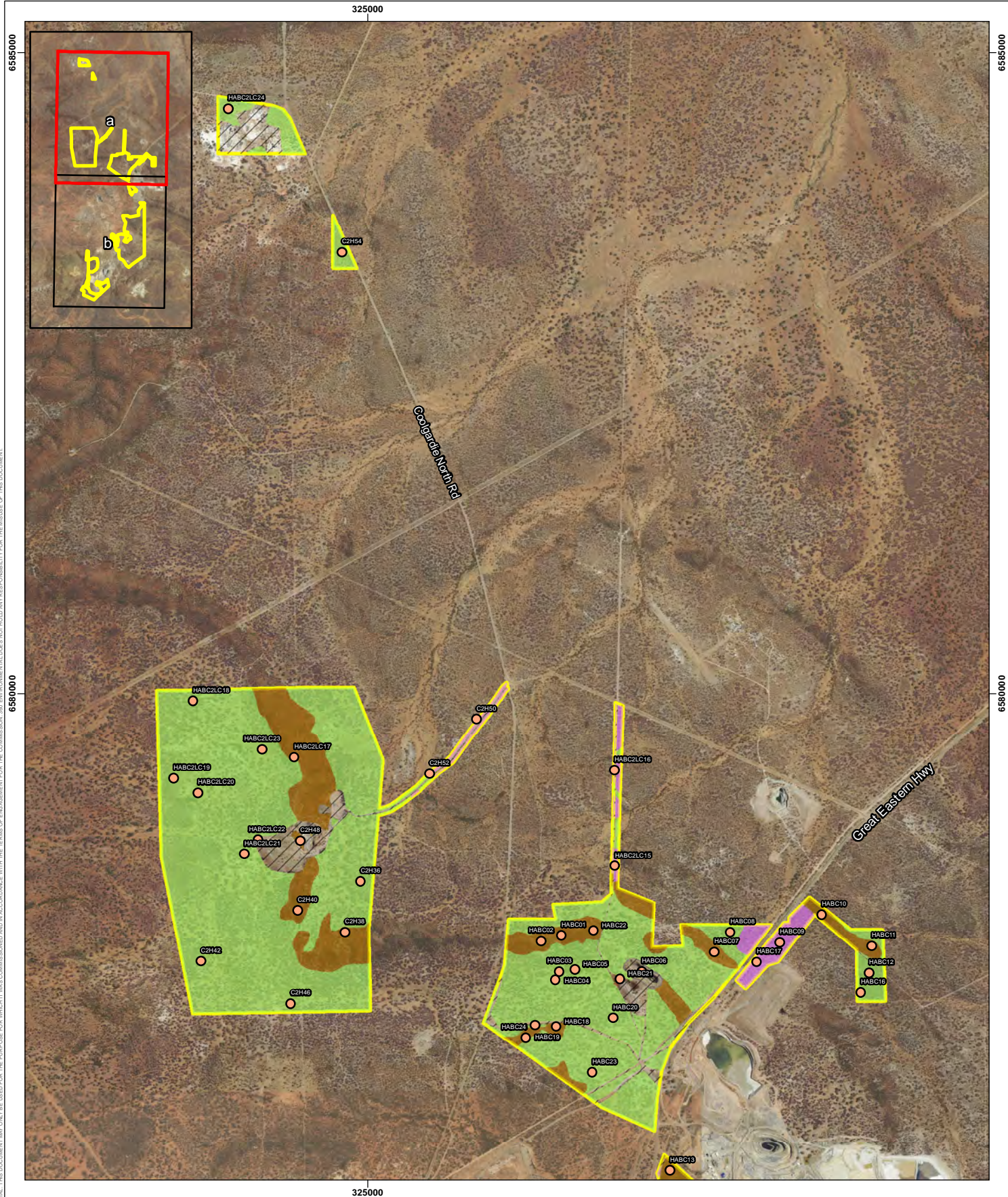
HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 51

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Figure 9
DBCA Threatened and Priority Fauna Records

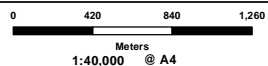


Legend

- Survey Area
- Habitat Assessment Location
- Fauna Habitat**
- Acacia Shrubland
- Eucalyptus Woodland
- Rocky Slopes
- Cleared

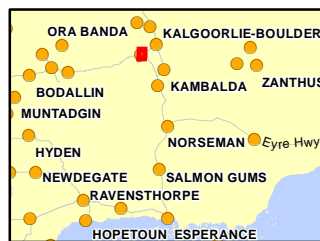
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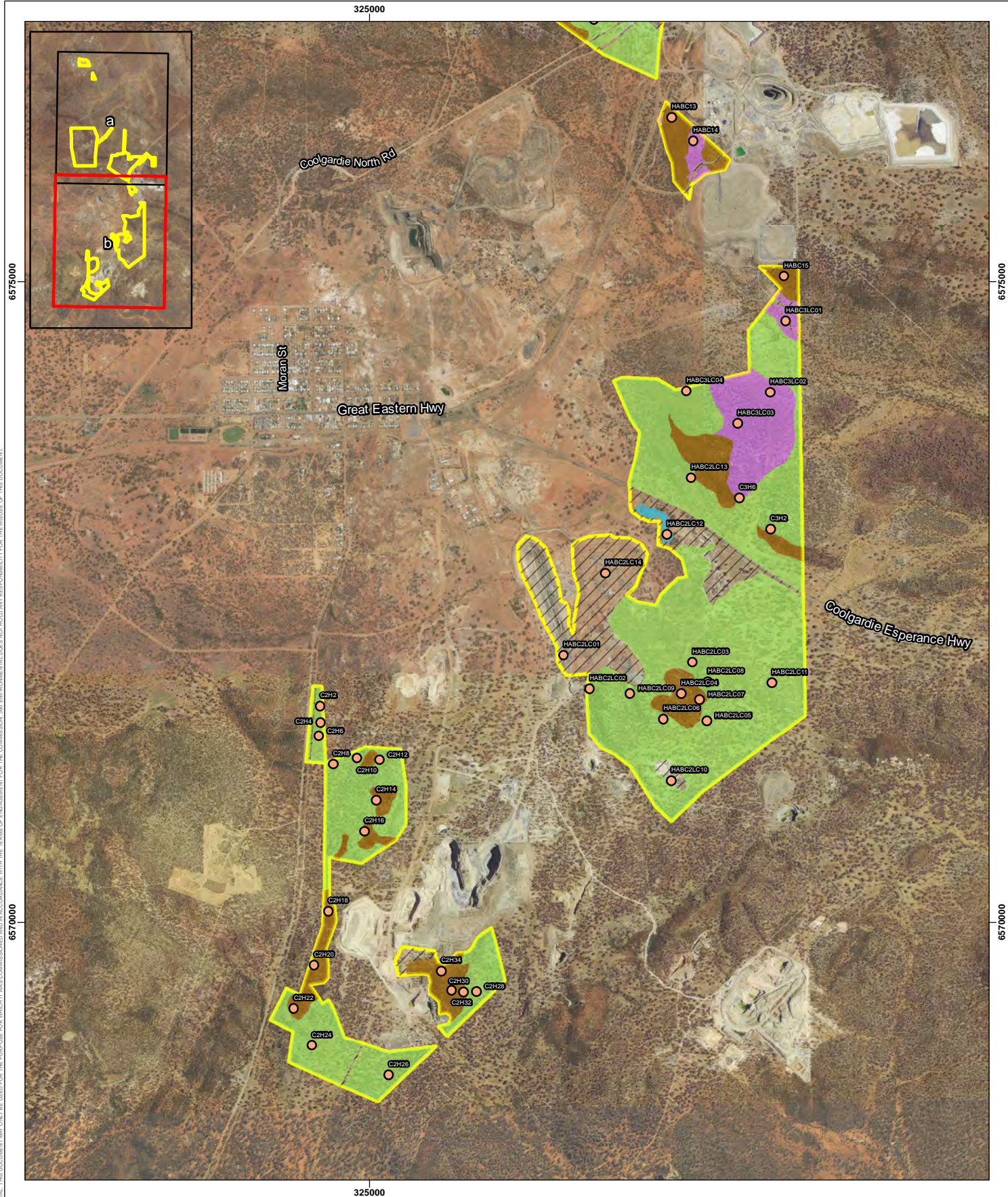
HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 51

CREATED	CHECKED	APPROVED	REVISION
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Figure 10a
Fauna Habitat

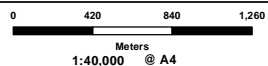


Legend

- Survey Area
- Habitat Assessment Location
- Fauna Habitat**
- Acacia Shrubland
- Eucalyptus Woodland
- Open Water
- Rocky Slopes
- Cleared

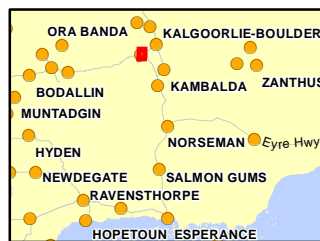
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Figure 10b
Fauna Habitat

Appendices

Appendix A

Flora and Fauna Literature Review

Appendix A: Fauna Literature Review

Report	Distance to current Survey Area	Survey timing	Survey effort	Recorded conservation significant fauna	Fauna habitats
Coolgardie landfill Flora, Vegetation and Fauna Habitat Assessment (Stategen Environmental 2019)	6.4 kms ESE of Survey Area	18 December 2018	Describe fauna habitat within the Survey Area	None	Open mallee woodland to mallee woodland.
Fauna survey for Mungari Gold Operations Cutters Ridge Project (Phoenix Environmental Sciences, 2019)	40 km North of Survey Area	September 2018	Level 1 Fauna Targeted Malleefowl	Malleefowl (<i>Leipoa ocellata</i>)	Open Eucalypt woodland, shrubland, and salt lake, in addition to a small portion of existing cleared areas.
Level 1 Vertebrate Fauna Risk Assessment for Lot 500 Kalgoorlie West (Terrestrial Ecosystems, 2018)	24 km NE of Survey Area	2018	Level 1 Vertebrate Fauna	None	Open eucalypt woodland with a mixed understory of scattered shrubs and chenopods
Vegetation Clearing - Fauna Assessment (Biostat Pty Ltd, 2020)	40 km N of the Survey Area	December 2019	Level 1 Reconnaissance	None	Open woodland: Acacia, Casuarina, and Eucalypt. Chenopod shrubland, Acacia shrubland. Eucalyptus sp. mallee over spinifex Stoney/rocky hills Drainage lines Mulga woodland

Appendix B

Flora and Fauna Database Searches

Appendix B: DBCA Threatened and Priority Fauna

CLASS	SCI_NAME	COM_NAME	WA_status	EPBCstatus	YEAR	SOURCE	CERTAINTY	OBS_METHOD	OBS_TYPE	COUNT	LOCALITY	SITE
Actitis hypoleucos	Common Sandpiper	BIRD	MI	MI	2014	BIRDATA				0	coolgardie gorge	coolgardie gorge
Actitis hypoleucos	Common Sandpiper	BIRD	MI	MI	2011	BIRDATA				0	The Gorge (Coolgardie0	The Gorge (Coolgardie0
Actitis hypoleucos	Common Sandpiper	BIRD	MI	MI	2013	BIRDATA				0	Coolgardie Gorge wetland	Coolgardie Gorge wetland
Tringa nebularia	Common greenshank, greenshank	BIRD	MI	MI	2013	BIRDATA				0	Coolgardie Gorge wetland	Coolgardie Gorge wetland
Calidris acuminata	Sharp-tailed sandpiper	BIRD	MI	MI	2012	BIRDATA				0	Silver Lake	Silver Lake
Calidris alba	Sanderling	BIRD	MI	MI	2016	BIRDATA				0	Hannan Lake	Hannan Lake
Calyptrorhynchus lat	Carnaby's cockatoo	BIRD	EN	EN	2016	BIRDATA				0	367 Collins	367 Collins
Calyptrorhynchus lat	Carnaby's cockatoo	BIRD	EN	EN	2016	BIRDATA				0	Cape Lilac on alley	Cape Lilac on alley
Calyptrorhynchus lat	Carnaby's cockatoo	BIRD	EN	EN	2017	BIRDATA				0	Piccadilly St West	Piccadilly St West
Tringa brevipes	Grey-tailed tattler	BIRD	P4	MI	2017	BIRDATA				0	Lake Douglas	Lake Douglas
Tringa nebularia	Common greenshank, greenshank	BIRD	MI	MI	1980	BIRDATLAS1				0	KANOWNA	KANOWNA
Tringa glareola	Wood sandpiper	BIRD	MI	MI	1980	BIRDATLAS1				0	KARLKURLA	KARLKURLA
Calidris acuminata	Sharp-tailed sandpiper	BIRD	MI	MI	1980	BIRDATLAS1				0	KARLKURLA	KARLKURLA
Thinornis rubricollis	Hooded plover, hooded dotterel	BIRD	P4		1980	BIRDATLAS1				0		
Tringa nebularia	Common greenshank, greenshank	BIRD	MI	MI	1980	BIRDATLAS1				0	KANOWNA	KANOWNA
Calidris acuminata	Sharp-tailed sandpiper	BIRD	MI	MI	1980	BIRDATLAS1				0	FEYSVILLE	FEYSVILLE
Calidris acuminata	Sharp-tailed sandpiper	BIRD	MI	MI	1981	BIRDATLAS1				0	KARLKURLA	KARLKURLA
Plegadis falcinellus	Glossy ibis	BIRD	MI	MI	1981	BIRDATLAS1				0	KARLKURLA	KARLKURLA
Calidris acuminata	Sharp-tailed sandpiper	BIRD	MI	MI	1981	BIRDATLAS1				0	KANOWNA	KANOWNA
Tringa nebularia	Common greenshank, greenshank	BIRD	MI	MI	2001	BIRDATLAS2				0	Kopal Lake	Kopal Lake
Calidris acuminata	Sharp-tailed sandpiper	BIRD	MI	MI	2001	BIRDATLAS2				0	Kopal Lake	Kopal Lake
Calidris acuminata	Sharp-tailed sandpiper	BIRD	MI	MI	2001	BIRDATLAS2				0	Kopal Lake	Kopal Lake
Tringa glareola	Wood sandpiper	BIRD	MI	MI	2005	BIRDATLAS2				0	Kaloorlie Sewerage overflow ponds	Kaloorlie Sewerage overflow ponds
Tringa glareola	Wood sandpiper	BIRD	MI	MI	2005	BIRDATLAS2				0	Kaloorlie Sewerage outlet	Kaloorlie Sewerage outlet
Tringa nebularia	Common greenshank, greenshank	BIRD	MI	MI	2006	BIRDATLAS2				0	Young River Station Lake	Young River Station Lake
Calidris ferruginea	curlew sandpiper	BIRD	CR	CR	2006	BIRDATLAS2				0	Young River Station Lake	Young River Station Lake
Calidris ruficollis	Red-necked stint	BIRD	MI	MI	2006	BIRDATLAS2				0	Young River Station Lake	Young River Station Lake
Calidris acuminata	Sharp-tailed sandpiper	BIRD	MI	MI	2006	BIRDATLAS2				0	Young River Station Lake	Young River Station Lake
Tringa nebularia	Common greenshank, greenshank	BIRD	MI	MI	1999	BIRDATLAS2				0	Kurnalpi Road	Kurnalpi Road
Calidris ferruginea	curlew sandpiper	BIRD	CR	CR	1999	BIRDATLAS2				0	Kurnalpi Road	Kurnalpi Road
Calidris acuminata	Sharp-tailed sandpiper	BIRD	MI	MI	1999	BIRDATLAS2				0	Kurnalpi Road	Kurnalpi Road
Leipoa ocellata	Malleefowl	BIRD	VU	VU	2012	FAUNASURVEY	Certain	Survey	Unknown	1	FEYSVILLE	Kaloorlie, Goldfields, Mt Martin
Leipoa ocellata	Malleefowl	BIRD	VU	VU	2012	FAUNASURVEY	Certain	Survey	Unknown	1	FEYSVILLE	Kaloorlie Region, Goldfields, Jubilee mine
Leipoa ocellata	Malleefowl	BIRD	VU	VU	2012	FAUNASURVEY	Certain	Survey	Unknown	1	FEYSVILLE	Kaloorlie Region, Goldfields, Jubilee mine
Leipoa ocellata	Malleefowl	BIRD	VU	VU	2012	FAUNASURVEY	Certain	Survey	Unknown	1	FEYSVILLE	Kaloorlie Region, Goldfields, Jubilee mine
Leipoa ocellata	Malleefowl	BIRD	VU	VU	2012	FAUNASURVEY	Certain	Survey	Unknown	1	FEYSVILLE	Kaloorlie Region, Goldfields, Jubilee mine
Leipoa ocellata	Malleefowl	BIRD	VU	VU	2012	FAUNASURVEY	Certain	Survey	Unknown	1	BULONG	Hampton Hill, Bulong Mining Lease M25/333
Dasyurus geoffroi	chuditch, western quoll	MAMMAL	VU	VU	1974	TFAUNA	Certain	Opportunistic sighting	Caught or trapped	1	Kambalda East	1 mile N of Kambalda East townsite, at edge of Lake Lefroy in sandy mulga country
Leipoa ocellata	malleefowl	BIRD	VU	VU	1994	TFAUNA	Certain	Opportunistic sighting	Secondary sign	0	Bullabulling	one active nest at Bullabulling No. 8 Pumping station.
Leipoa ocellata	malleefowl	BIRD	VU	VU	1995	TFAUNA	Moderately certain	Opportunistic sighting	Day sighting	1	Londonderry	Yerilla Sandalwood Reserve
Leipoa ocellata	malleefowl	BIRD	VU	VU	2000	TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Mount Burges	access road to Kundana Mining Lease - "30km NW (10km W & 22km N) of Kalgoorlie"
Branchinella dentic	a fairy shrimp (Carnavon to Kalgoorlie)	INVERTEBRATE	P3		1937	TFAUNA	Certain	Historical (written)	Caught or trapped	0	Gidgi Lake	Gidgi Lake, N of Kalgoorlie
Thinornis rubricollis	hooded plover, hooded dotterel	BIRD	P4		1992	TFAUNA	Certain	Survey	Sighting	0	Arrow Lake	Arrow Lake
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1989	TFAUNA	Certain	Survey	Caught or trapped	1	Lake Douglas	Lake Douglas, 12 km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1991	TFAUNA	Certain	Survey	Caught or trapped	1	Lake Douglas	Lake Douglas, 12 km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1982	TFAUNA	Certain	Survey	Caught or trapped	2	Lake Douglas	Lake Douglas, 12 km SW of Kalgoorlie

CLASS	SCL_NAME	COM_NAME	WA_status	EPBCstatus	YEAR	SOURCE	CERTAINTY	OBS_METHOD	OBS_TYPE	COUNT	LOCALITY	SITE
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1986	TFAUNA	Certain	Survey	Caught or trapped	15	Lake Douglas	Lake Douglas, 12 km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1986	TFAUNA	Certain	Survey	Caught or trapped	4	Lake Douglas	Lake Douglas, 12 km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1991	TFAUNA	Certain	Survey	Caught or trapped	1	Lake Douglas	Lake Douglas, Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1987	TFAUNA	Certain	Survey	Caught or trapped	1	Lake Douglas	Lake Douglas, 12km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1987	TFAUNA	Certain	Survey	Caught or trapped	8	Lake Douglas	Lake Douglas, 12km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1987	TFAUNA	Certain	Survey	Caught or trapped	2	Lake Douglas	Lake Douglas, 12km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1989	TFAUNA	Certain	Survey	Caught or trapped	2	Lake Douglas	Lake Douglas, 12km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1989	TFAUNA	Certain	Survey	Caught or trapped	2	Lake Douglas	Lake Douglas, 12km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1989	TFAUNA	Certain	Survey	Caught or trapped	3	Lake Douglas	Lake Douglas, 12km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1989	TFAUNA	Certain	Survey	Caught or trapped	6	Lake Douglas	Lake Douglas, 12km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1991	TFAUNA	Certain	Survey	Caught or trapped	1	Lake Douglas	Lake Douglas, 12km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1991	TFAUNA	Certain	Survey	Caught or trapped	4	Lake Douglas	Lake Douglas, 12km SW of Kalgoorlie
Leipoa ocellata	malleefowl	BIRD	VU	VU	1985	TFAUNA	Certain	Opportunistic sighting	Sighting	2	Jaurdie Hills	Jaurdie Hills
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1911	TFAUNA	Certain	Historical (written)	Caught or trapped	1	Kalgoorlie	SW Australia, Kalgoorlie District
Jalmenus aridus	inland hairstreak, desert blue butterfly	INVERTEBRATE	P1		1985	TFAUNA	Certain	Survey	Caught or trapped	1	Lake Douglas	Lake Douglas 12 km SW of Kalgoorlie
Jalmenus aridus	inland hairstreak, desert blue butterfly	INVERTEBRATE	P1		1989	TFAUNA	Certain	Survey	Caught or trapped	1	Lake Douglas	Lake Douglas 12 km SW of Kalgoorlie
Jalmenus aridus	inland hairstreak, desert blue butterfly	INVERTEBRATE	P1		1986	TFAUNA	Certain	Survey	Caught or trapped	1	Lake Douglas	Lake Douglas 12 km SW of Kalgoorlie
Jalmenus aridus	inland hairstreak, desert blue butterfly	INVERTEBRATE	P1		1986	TFAUNA	Certain	Survey	Caught or trapped	1	Lake Douglas	Lake Douglas 12 km SW of Kalgoorlie
Ogyris subterrestris	arid bronze azure butterfly	INVERTEBRATE	CR	CR	1985	TFAUNA	Certain	Survey	Caught or trapped	1	Lake Douglas	Lake Douglas 12 km SW of Kalgoorlie
Leipoa ocellata	malleefowl	BIRD	VU	VU	2006	TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Bullabulling	Bullabulling
Leipoa ocellata	malleefowl	BIRD	VU	VU	2007	TFAUNA	Certain	Opportunistic sighting	Day sighting	2	Bullabulling	Bullabulling
Leipoa ocellata	malleefowl	BIRD	VU	VU	2008	TFAUNA	Certain	Opportunistic sighting	Day sighting	2	Bullabulling	Bullabulling pastoral lease, 10km west of the Bullabulling Pub and 2 kms south of the highway
Jalmenus aridus	inland hairstreak, desert blue butterfly	INVERTEBRATE	P1		1997	TFAUNA	Certain	Survey	Caught or trapped	1	Karramindie	Lake Douglas (Douglas Lake)
Leipoa ocellata	malleefowl	BIRD	VU	VU	2009	TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Mount Burges	North of Mount Burges
Leipoa ocellata	malleefowl	BIRD	VU	VU	2009	TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Bullabulling	Bullabulling, road from Bullabulling to Stewart
Leipoa ocellata	malleefowl	BIRD	VU	VU	2010	TFAUNA	Certain	Opportunistic sighting	Sighting	1		Vic Rock Road
Leipoa ocellata	malleefowl	BIRD	VU	VU	2011	TFAUNA	Certain	Opportunistic sighting	Day sighting	1		Yallari Timber Reserve
Leipoa ocellata	malleefowl	BIRD	VU	VU	2011	TFAUNA	Certain	Opportunistic sighting	Secondary sign	0		Yallari Timber Reserve
Leipoa ocellata	malleefowl	BIRD	VU	VU	2011	TFAUNA	Certain	Opportunistic sighting	Day sighting	1		
Leipoa ocellata	malleefowl	BIRD	VU	VU	2009	TFAUNA	Certain	Opportunistic sighting	Day sighting	1		on road from Bullabulling to Stuart sighting, off Great Eastern Highway
Leipoa ocellata	malleefowl	BIRD	VU	VU	2009	TFAUNA	Certain	Opportunistic sighting	Day sighting	1		north of Mt Burgess
Leipoa ocellata	malleefowl	BIRD	VU	VU	2011	TFAUNA	Certain	Survey	Caught or trapped	1		gravel area just off side of the road at Yarri and Barick Kanowna Belle access road intersection.
Leipoa ocellata	malleefowl	BIRD	VU	VU	2012	TFAUNA	Certain	Opportunistic sighting	Day sighting	2	Coolgardie	Just off cave hill road in Widgeemooltha close to one of Focus Minerals small operations.
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Dead	1	Bullabulling	48km West of Coolgardie, No 8 pump Denardi Station, Great Eastern Highway
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Moderately certain	Opportunistic sighting	Day sighting	1	Bullabulling	~10km east of Bullabulling (40km east of Coolgardie) on Great Eastern Highway
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Moderately certain	Opportunistic sighting	Night sighting	1	Feysville	Out the front of Pevnatty Crib room on active haul road. A highly disturbed area.
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Secondary sign	0	Schahil Timber reserve	Schahil Timber reserve

CLASS	SCL_NAME	COM_NAME	WA_status	EPBCstatus	YEAR	SOURCE	CERTAINTY	OBS_METHOD	OBS_TYPE	COUNT	LOCALITY	SITE
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Burra Rock Conservation Reserve	Carpark at Burra Rock. Mound found within adjacent bush habitat.
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Ora Banda	500m before Cawse Nickel turn off on Broad Arrow-Ora Banda road, heading towards Ora Banda
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Kanowna	~5km before the Mt Pleasant Office turn off on Mt Pleasant Rd, off Menzies Highway
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Dead	1	Kanowna	3.1km north of Paddington Mill (35km north of Kalgoorlie) on Menzies Highway
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Day sighting	1		3.2km east of cawse nickel turn off on the Ora Banda - Broad Arrow Rd
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Moderately certain	Opportunistic sighting	Day sighting	1	Feysville	Woolibar Station, just south of where Woolibar creek crosses the Goldfields Highway.
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Dead	1	Kanowna	~4.45km east of Cawse Nickel turn off on the Broad Arrow- Ora Banda Rd
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Dead	1	Kanowna	~100-200m W of drilling track access road, on the Braod Arrow to Ora Banda road, Near Cawse Nickel turn off.
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Kanowna	~10km W of Menzies Hwy on Ora Banda - Broad Arrow road
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Day sighting	1		3.26km E of Cawse Nickel turn off on Broad Arrow - Ora banda Rd
Leipoa ocellata	malleefowl	BIRD	VU	VU	2014	TFAUNA	Certain	Opportunistic sighting	Day sighting	2	Burra Rock	Burra Rock, Directly west of campsite, south of old east-west track
Leipoa ocellata	malleefowl	BIRD	VU	VU	2015	TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Parkeston	100m along a small track - off a major dirt road; approximately 9km NE of Kalgoorlie
Leipoa ocellata	malleefowl	BIRD	VU	VU	2015	TFAUNA	Certain	Opportunistic sighting	Day sighting	2	Bulong	10.6km SSE of Hampton Hill Station homestead
Leipoa ocellata	malleefowl	BIRD	VU	VU	2015	TFAUNA	Certain	Opportunistic sighting	Day sighting	2	Feysville	Brown Hill on Woolubar Station. Kambolda Rd, Boulder WA
Leipoa ocellata	malleefowl	BIRD	VU	VU	2016	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	1	Coolgardie	Coolgardie North Rd, approx. 5km N of Coolgardie
Leipoa ocellata	malleefowl	BIRD	VU	VU	2016	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	1	Coolgardie	Coolgardie North Rd, approx. 7km N of Coolgardie, near Bonnievale
Leipoa ocellata	malleefowl	BIRD	VU	VU	2015	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	1	Coolgardie	Between Burra Rocks Rd and Coolgardie-Esperance Rd, approx. 5km S of Coolgardie
Leipoa ocellata	malleefowl	BIRD	VU	VU	2016	TFAUNA	Certain	Opportunistic sighting	Dusk sighting	1	Yallari Timber Reserve	Yallari Timber Reserve, central N-S track
Leipoa ocellata	malleefowl	BIRD	VU	VU	2016	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	1	Mount Burges	Traveling route back from Lake Carnage (Coolgardie Nth Rd??), 10km S of Ora Banda
Leipoa ocellata	malleefowl	BIRD	VU	VU	1996	TFAUNA	Moderately certain	Opportunistic sighting	Secondary sign	0	Coolgardie	4WD Holland Track, 200km NE of Mt Holland (cannot find Holland Track)
Leipoa ocellata	malleefowl	BIRD	VU	VU	1965	TFAUNA	Moderately certain	Historical (written)	Secondary sign	0	MOUNT BURGES	12 miles North of Coolgardie
Leipoa ocellata	malleefowl	BIRD	VU	VU	1994	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	2	BULLABULLING	22 kms west of Coolgardie
Leipoa ocellata	malleefowl	BIRD	VU	VU	2004	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	1	KANOWNA	50 km nth of kalgoorlie on main hwy nth of Mt Vettters homestead
Leipoa ocellata	malleefowl	BIRD	VU	VU	1902	TFAUNA	Moderately certain	Opportunistic sighting	Secondary sign	0	BOORARA	Boorara
Leipoa ocellata	malleefowl	BIRD	VU	VU	2001	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	1	BULONG	Corsair Mine 10km E of Kalgoorlie; 1km S of Bulong Rd on graded track heading E
Leipoa ocellata	malleefowl	BIRD	VU	VU	1988	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	1	MOUNT BURGES	Eight Mile Rock dam
Leipoa ocellata	malleefowl	BIRD	VU	VU	2002	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	2	KARRAMINDIE	grt eastern hwy 1 km kal side of mungarrie industrial area
Leipoa ocellata	malleefowl	BIRD	VU	VU	2002	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	2	BULONG	Hampton Hill Station, 16km ESE of Boulder b/w Boorara Mine Site & Golden Ridge
Leipoa ocellata	malleefowl	BIRD	VU	VU	1910	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	1	LAMINGTON	Kalgoorlie
Leipoa ocellata	malleefowl	BIRD	VU	VU	1991	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	1	BULLABULLING	Kangaroo Hills Timber Reserve
Leipoa ocellata	malleefowl	BIRD	VU	VU	1947	TFAUNA	Moderately certain	Opportunistic sighting	Secondary sign	0	LAMINGTON	PO Kalgoorlie
Leipoa ocellata	malleefowl	BIRD	VU	VU	1988	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	1	MOUNT BURGES	WMC sand pit Jaurdi Hills Rd
Leipoa ocellata	malleefowl	BIRD	VU	VU	1995	TFAUNA	Moderately certain	Opportunistic sighting	Sighting	1	LONDONDERRY	Yallari Timber Reserve
Leipoa ocellata	malleefowl	BIRD	VU	VU	1995	TFAUNA	Moderately certain	Opportunistic sighting	Day sighting	1	LONDONDERRY	Yerilla Sandalwood Reserve
Leipoa ocellata	malleefowl	BIRD	VU	VU	2017	TFAUNA	Very Certain (photo, spec)	Opportunistic sighting	Day sighting	1	Goldfields Woodlands Conservation P	5km N of Victoria Rock, on Coolgardie Vic Rock Rd, in Goldfields Woodlands CP

CLASS	SCL_NAME	COM_NAME	WA_status	EPBCstatus	YEAR	SOURCE	CERTAINTY	OBS_METHOD	OBS_TYPE	COUNT	LOCALITY	SITE
Leipoa ocellata	malleefowl	BIRD	VU	VU	2017	TFAUNA	Very Certain (photo, spec)	Monitoring	Remote camera	1	Londonderry	Scahill Rimber Reserve, on track south of reserve
Leipoa ocellata	malleefowl	BIRD	VU	VU	2017	TFAUNA	Very Certain (photo, spec)	Monitoring	Remote camera	1	Londonderry	Scahill Rimber Reserve, on track south of reserve
Leipoa ocellata	malleefowl	BIRD	VU	VU	2018	TFAUNA	Very Certain (photo, spec)	Opportunistic sighting	Dawn sighting	2	Kanowna	Borad Arrow-Ora Banda Rd, 3km E of Cawse Nickel turnoff
Leipoa ocellata	malleefowl	BIRD	VU	VU	2018	TFAUNA	Not sure	Opportunistic sighting	Sighting	1	Ora Banda	Norton Gold field mining lease road
Leipoa ocellata	malleefowl	BIRD	VU	VU	2017	TFAUNA	Moderately certain	Opportunistic sighting	Day sighting	1	Karramindie	Karramindie State Forest No. 8
Leipoa ocellata	malleefowl	BIRD	VU	VU	2017	TFAUNA	Very Certain (photo, spec)	Opportunistic sighting	Dusk sighting	1	Karramindie	50m E of the S/W corner gate of Karramindie State Forest, where the gully crosses the track
Leipoa ocellata	malleefowl	BIRD	VU	VU	2018	TFAUNA	Very Certain (photo, spec)	Opportunistic sighting	Secondary sign	0	Karramindie	1.7km S of Karramindie State Forest on Hampton Location 53
Leipoa ocellata	malleefowl	BIRD	VU	VU	2018	TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Londonberry	Old woodline track running SW away from Scahill Timber Reserve
Leipoa ocellata	malleefowl	BIRD	VU	VU	2018	TFAUNA	Very Certain (photo, spec)	Monitoring	Remote camera	2	Londonderry	3.5km S of Scahill Timber Reserve, Londonderry
Leipoa ocellata	malleefowl	BIRD	VU	VU	2018	TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Kanowna	Golden cities Mine Site haul road, Kanowna
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	EN	2018	TFAUNA	Very Certain (photo, spec)	Opportunistic sighting	Day sighting	1	Sommerville	Southern corner of Hay St and Hutton St
Leipoa ocellata	malleefowl	BIRD	VU	VU	2018	TFAUNA	Very Certain (photo, spec)	Opportunistic sighting	Day sighting	0	Kalgoorlie	West north-west of Kalgoorlie about 20km
Leipoa ocellata	malleefowl	BIRD	VU	VU	2018	TFAUNA	Certain	Opportunistic sighting	Day sighting	2	Golden Cities	Goldfields mining tenure
Leipoa ocellata	malleefowl	BIRD	VU	VU	2007	TFAUNA	Certain	Opportunistic sighting		1	Coolgardie	Victoria Rock Rd, about 15km south of Coolgardie
Leipoa ocellata	malleefowl	BIRD	VU	VU	2007	TFAUNA	Certain	Opportunistic sighting		1	Kalgoorlie	Broad Arrow-Ora Banda Rd, few km east of Cawse Mine turnoff
Leipoa ocellata	malleefowl	BIRD	VU	VU	2007	TFAUNA	Certain	Opportunistic sighting		1	Coolgardie	Burra Rock Road, 11.2km north of DEC Burra Rock Reserve boundary sign
Leipoa ocellata	malleefowl	BIRD	VU	VU	2012	TFAUNA	Certain	Opportunistic sighting		4	Coolgardie	Borefields on Focus owned mine lease, near bore 8
Leipoa ocellata	malleefowl	BIRD	VU	VU	2008	TFAUNA	Certain	Opportunistic sighting		1	Kambalda	
Leipoa ocellata	malleefowl	BIRD	VU	VU	2006	TFAUNA	Certain	Opportunistic sighting		1	Coolgardie	23.2km south of T intersection of Coolgardie Norseman Rd
Leipoa ocellata	malleefowl	BIRD	VU	VU	2008	TFAUNA	Certain	Opportunistic sighting	Dusk sighting	1	Coolgardie	Great Eastern Hwy, 40.5km west of Coolgardie
Leipoa ocellata	malleefowl	BIRD	VU	VU	2009	TFAUNA	Certain	Opportunistic sighting		2	Coolgardie	Juardi Hills Rd, 100m north of crest
Leipoa ocellata	malleefowl	BIRD	VU	VU	2009	TFAUNA	Certain	Opportunistic sighting		1	Londonerry	about 3km south of Burra Rock Reserve along Burra Rock Road
Leipoa ocellata	malleefowl	BIRD	VU	VU	2010	TFAUNA	Certain	Opportunistic sighting		1	Londonberry	Burra Rock Nature Reserve, next to camping area
Leipoa ocellata	malleefowl	BIRD	VU	VU	2010	TFAUNA	Certain	Opportunistic sighting		1	Kambalda	5km along pipeline access road off Cave Rocks mine haul rd
Leipoa ocellata	malleefowl	BIRD	VU	VU	2010	TFAUNA	Certain	Opportunistic sighting	Dead	1	Kambalda	9km N of Kambalda T Intersection along Goldfields Hwy
Leipoa ocellata	malleefowl	BIRD	VU	VU	2010	TFAUNA	Certain	Opportunistic sighting		1	Bullabulling	Great Eastern Hwy, 130km E of Southern Cross, near unnamed gravel road
Leipoa ocellata	malleefowl	BIRD	VU	VU	2011	TFAUNA	Certain	Opportunistic sighting		1	Ora Banda	Broad Arrow-Ora Banda Rd, approx. 5.5km from Norilsk Nickel access road toward east
Leipoa ocellata	malleefowl	BIRD	VU	VU	2011	TFAUNA	Certain	Opportunistic sighting		2	Londonderry	Burra Rock camping ground
Leipoa ocellata	malleefowl	BIRD	VU	VU	2011	TFAUNA	Certain	Survey		0	Ora Banda	
Leipoa ocellata	malleefowl	BIRD	VU	VU	2011	TFAUNA	Certain	Survey		0	Ora Banda	
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Sighting	1	Coolgardie	7km south of Coolgardie on the Victoria Rock Road
Leipoa ocellata	malleefowl	BIRD	VU	VU	0	TFAUNA	Certain	Opportunistic sighting	Secondary sign	0	Burra Rock Conservation Reserve	
Leipoa ocellata	malleefowl	BIRD	VU	VU	2012	TFAUNA	Certain	Opportunistic sighting	Sighting	1	Kalgoorlie	Goldfield HWY
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Sighting	1	Ora Banda	Between Broad Arrow and Ora Banda
Leipoa ocellata	malleefowl	BIRD	VU	VU	2013	TFAUNA	Certain	Opportunistic sighting	Sighting	1	Goldfields- Kalgoorlie/Coolgardie	Great Eastern Highway
Leipoa ocellata	malleefowl	BIRD	VU	VU	2019	TFAUNA	Certain	Opportunistic sighting	Dusk sighting	1	Arrow Lake	
Leipoa ocellata	malleefowl	BIRD	VU	VU	2019	TFAUNA	Certain	Opportunistic sighting	Sighting	1	Mungari	Mungari turnoff from Great Eastern HWY heading South
Leipoa ocellata	Malleefowl	BIRD	VU	VU	0	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1	KALGOORLIE	Kalgoorlie
Leipoa ocellata	Malleefowl	BIRD	VU	VU	0	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1		Kalgoorlie

NatureMap Species Report

Created By Guest user on 02/11/2021

Kingdom Animalia
Current Names Only Yes
Core Datasets Only Yes
Species Group All Animals
Method 'By Circle'
Centre 121° 11' 12" E, 30° 55' 14" S
Buffer 40km
Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	297	4751
Priority 1	1	5
Priority 4	1	1
Protected under international agreement	6	13
Rare or likely to become extinct	6	67
TOTAL	311	4837

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Rare or likely to become extinct				
1.	24784 <i>Calidris ferruginea</i> (Curlew Sandpiper)		T	
2.	24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo, White-tailed Short-billed Black Cockatoo)		T	
3.	24557 <i>Leipoa ocellata</i> (Malleefowl)		T	
4.	24168 <i>Macrotis lagotis</i> (Bilby, Dalgyte, Ninu)		T	
5.	24146 <i>Myrmecobius fasciatus</i> (Numbat, Walpurti)		T	
6.	33987 <i>Ogyris subterrestris</i> subsp. <i>petrina</i> (Arid Bronze Azure Butterfly)		T	
Protected under international agreement				
7.	41323 <i>Actitis hypoleucos</i> (Common Sandpiper)		IA	
8.	24779 <i>Calidris acuminata</i> (Sharp-tailed Sandpiper)		IA	
9.	24780 <i>Calidris alba</i> (Sanderling)		IA	
10.	24788 <i>Calidris ruficollis</i> (Red-necked Stint)		IA	
11.	24806 <i>Tringa glareola</i> (Wood Sandpiper)		IA	
12.	24808 <i>Tringa nebularia</i> (Common Greenshank, greenshank)		IA	
Priority 1				
13.	33979 <i>Jalmenus aridus</i> (inland hairstreak, desert blue butterfly)		P1	Y
Priority 4				
14.	24803 <i>Tringa brevipes</i> (Grey-tailed Tattler)		P4	
Non-conservation taxon				
15.	24559 <i>Acanthagenys rufogularis</i> (Spiny-cheeked Honeyeater)			
16.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
17.	24261 <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
18.	24265 <i>Acanthiza uropygialis</i> (Chestnut-rumped Thornbill)			
19.	25243 <i>Acanthophis pyrrhus</i> (Desert Death Adder)			
20.	25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
21.	25536 <i>Accipiter fasciatus</i> (Brown Goshawk)			
22.	25544 <i>Aegotheles cristatus</i> (Australian Owlet-nightjar)			
23.	<i>Afraflacilla stridulator</i>			
24.	<i>Afrosterophorus hirsti</i>			Y
25.	<i>Allodessus bistrigatus</i>			
26.	<i>Aname armigera</i>			
27.	<i>Aname mainae</i>			
28.	24312 <i>Anas gracilis</i> (Grey Teal)			
29.	24313 <i>Anas platyrhynchos</i> (Mallard)			
30.	24315 <i>Anas rhynchotis</i> (Australasian Shoveler)			
31.	24316 <i>Anas superciliosa</i> (Pacific Black Duck)			
32.	47414 <i>Anhinga novaehollandiae</i> (Australasian Darter)			
33.	<i>Anidiops villosus</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
34.	24561	<i>Anthochaera carunculata</i> (Red Wattlebird)			
35.	25670	<i>Anthus australis</i> (Australian Pipit)			
36.	24599	<i>Anthus australis</i> subsp. <i>australis</i> (Australian Pipit)			
37.	25528	<i>Aphelocephala leucopsis</i> (Southern Whiteface)			
38.	24266	<i>Aphelocephala leucopsis</i> subsp. <i>castaneiventris</i> (Southern Whiteface)			
39.	24285	<i>Aquila audax</i> (Wedge-tailed Eagle)			
40.	41324	<i>Ardea modesta</i> (great egret, white egret)			
41.	24341	<i>Ardea pacifica</i> (White-necked Heron)			
42.	24610	<i>Ardeotis australis</i> (Australian Bustard)			
43.		<i>Argiope protensa</i>			
44.		<i>Argiope trifasciata</i>			
45.	25566	<i>Artamus cinereus</i> (Black-faced Woodswallow)			
46.	24353	<i>Artamus cyanopterus</i> (Dusky Woodswallow)			
47.	24356	<i>Artamus personatus</i> (Masked Woodswallow)			
48.		<i>Austracantha minax</i>			
49.	24318	<i>Aythya australis</i> (Hardhead)			
50.		<i>Backbourkia heroine</i>			
51.		<i>Baiami teganarioides</i>			
52.		<i>Barnardius zonarius</i>			
53.		<i>Berosus nutans</i>			
54.	24319	<i>Biziura lobata</i> (Musk Duck)			
55.	42380	<i>Brachyurophis fasciolatus</i> subsp. <i>fasciolatus</i> (Narrow-banded Shovel-nosed Snake)			
56.	42381	<i>Brachyurophis semifasciatus</i> (Southern Shovel-nosed Snake)			
57.	25715	<i>Cacatua roseicapilla</i> (Galah)			
58.	25716	<i>Cacatua sanguinea</i> (Little Corella)			
59.	42307	<i>Cacomantis pallidus</i> (Pallid Cuckoo)			
60.	24253	<i>Capra hircus</i> (Goat)	Y		
61.		<i>Carassius auratus</i>			
62.		<i>Celaenia excavata</i>			
63.	24086	<i>Cercartetus concinnus</i> (Western Pygmy-possum, Mundarda)			
64.		<i>Cercophonius michaelsoni</i>			
65.	24186	<i>Chalinolobus gouldii</i> (Gould's Wattle Bat)			
66.	24187	<i>Chalinolobus morio</i> (Chocolate Wattle Bat)			
67.	24377	<i>Charadrius ruficapillus</i> (Red-capped Plover)			
68.	43380	<i>Chelodina colliei</i> (South-western Snake-necked Turtle)			
69.	24321	<i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
70.	47909	<i>Cheramoeca leucosterna</i> (White-backed Swallow)			
71.		<i>Chroicocephalus novaehollandiae</i>			
72.	24431	<i>Chrysococcyx basalis</i> (Horsfield's Bronze Cuckoo)			
73.	24434	<i>Chrysococcyx osculans</i> (Black-eared Cuckoo)			
74.	24289	<i>Circus assimilis</i> (Spotted Harrier)			
75.	24774	<i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
76.	25675	<i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
77.	24399	<i>Columba livia</i> (Domestic Pigeon)	Y		
78.	24361	<i>Coracina maxima</i> (Ground Cuckoo-shrike)			
79.	25568	<i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
80.		<i>Corasoides australis</i>			
81.		<i>Corimaethes campestris</i>			
82.		<i>Cormocephalus bungalbinensis</i>			
83.	24416	<i>Corvus bennetti</i> (Little Crow)			
84.	25592	<i>Corvus coronoides</i> (Australian Raven)			
85.	25593	<i>Corvus orru</i> (Torresian Crow)			
86.	24671	<i>Coturnix pectoralis</i> (Stubble Quail)			
87.	24420	<i>Cracticus nigrogularis</i> (Pied Butcherbird)			
88.	25595	<i>Cracticus tibicen</i> (Australian Magpie)			
89.	25596	<i>Cracticus torquatus</i> (Grey Butcherbird)			
90.	30893	<i>Cryptoblepharus buehneri</i>			
91.	25020	<i>Cryptoblepharus plagiocephalus</i>			
92.	25458	<i>Ctenophorus caudicinctus</i> (Ring-tailed Dragon)			
93.	24871	<i>Ctenophorus cristatus</i> (Bicycle Dragon)			
94.	24873	<i>Ctenophorus fordi</i> (Mallee Sand Dragon)			
95.	24874	<i>Ctenophorus isolepis</i> subsp. <i>citrus</i> (Yellowy Military Dragon)			
96.	24882	<i>Ctenophorus nuchalis</i> (Central Netted Dragon)			
97.	24886	<i>Ctenophorus reticulatus</i> (Western Netted Dragon)			
98.	24888	<i>Ctenophorus salinarum</i> (Salt Pan Dragon)			
99.	24889	<i>Ctenophorus scutulatus</i> (Lozenge-marked Dragon)			
100.	25026	<i>Ctenotus atlas</i>			
101.	25052	<i>Ctenotus leonhardii</i>			
102.	25074	<i>Ctenotus schomburgkii</i>			
103.	25465	<i>Ctenotus uber</i> (Spotted Ctenotus)			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
104.	25080	<i>Ctenotus uber</i> subsp. <i>uber</i> (Spotted Ctenotus)			
105.	25089	<i>Cyclodomorphus melanops</i> subsp. <i>elongatus</i> (Slender Blue-tongue)			
106.	24322	<i>Cygnus atratus</i> (Black Swan)			
107.		<i>Cyrtophora parnasia</i>			
108.		<i>Daphnia carinata</i>			
109.	25673	<i>Daphoenositta chrysoptera</i> (Varied Sittella)			
110.	24606	<i>Daphoenositta chrysoptera</i> subsp. <i>pileata</i> (Varied Sittella, Black-capped Sittella)			
111.	24995	<i>Delma australis</i>			
112.	25247	<i>Demansia psammophis</i> subsp. <i>psammophis</i> (Yellow-faced Whipsnake)			
113.	25607	<i>Dicaeum hirundinaceum</i> (Mistletoebird)			
114.	25469	<i>Diplodactylus granariensis</i>			
115.	24929	<i>Diplodactylus granariensis</i> subsp. <i>granariensis</i>			
116.	24940	<i>Diplodactylus pulcher</i>			
117.	24470	<i>Dromaius novaehollandiae</i> (Emu)			
118.	24650	<i>Drymodes brunneopygia</i> (Southern Scrub-robin)			
119.	25092	<i>Egernia depressa</i> (Southern Pygmy Spiny-tailed Skink)			
120.	25094	<i>Egernia formosa</i>			
121.	25104	<i>Egernia richardi</i>			
122.		<i>Egretta novaehollandiae</i>			
123.		<i>Elanus axillaris</i>			
124.	24290	<i>Elanus caeruleus</i> subsp. <i>axillaris</i> (Australian Black-shouldered Kite)			
125.	47937	<i>Elseya melanops</i> (Black-fronted Dotterel)			
126.		<i>Enochrus elongatus</i>			
127.		<i>Eolophus roseicapillus</i>			
128.	24651	<i>Eopsaltria australis</i> subsp. <i>griseogularis</i> (Western Yellow Robin)			
129.	24567	<i>Epthianura albigularis</i> (White-fronted Chat)			
130.	24570	<i>Epthianura tricolor</i> (Crimson Chat)			
131.	25109	<i>Eremiascincus richardsonii</i> (Broad-banded Sand Swimmer)			
132.		<i>Eriophora biapicata</i>			
133.	24379	<i>Erythronyx cinctus</i> (Red-kneed Dotterel)			
134.	24368	<i>Eurostopodus argus</i> (Spotted Nightjar)			
135.	25621	<i>Falco berigora</i> (Brown Falcon)			
136.	24471	<i>Falco berigora</i> subsp. <i>berigora</i> (Brown Falcon)			
137.	25622	<i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
138.	25623	<i>Falco longipennis</i> (Australian Hobby)			
139.	24041	<i>Felis catus</i> (Cat)	Y		
140.		<i>Fissarena castanea</i>			
141.	25727	<i>Fulica atra</i> (Eurasian Coot)			
142.	25301	<i>Furina ornata</i> (Moon Snake)			
143.	24957	<i>Gehyra purpurascens</i>			
144.	24959	<i>Gehyra variegata</i>			
145.	25530	<i>Gerygone fusca</i> (Western Gerygone)			
146.	24443	<i>Grallina cyanoleuca</i> (Magpie-lark)			
147.	24295	<i>Haliastur spheurnus</i> (Whistling Kite)			
148.		<i>Hemicloea sublimbata</i>			
149.	25232	<i>Hemidactylus frenatus</i> (Asian House Gecko)	Y		
150.	25115	<i>Hemiergis initialis</i> subsp. <i>initialis</i>			
151.	42408	<i>Hesperoedura reticulata</i>			
152.	24961	<i>Heteronotia binoei</i> (Bynoe's Gecko)			
153.	47965	<i>Hieraaetus morphnoides</i> (Little Eagle)			
154.	25734	<i>Himantopus himantopus</i> (Black-winged Stilt)			
155.	24775	<i>Himantopus himantopus</i> subsp. <i>leucocephalus</i> (Black-winged Stilt)			
156.	24491	<i>Hirundo neoxena</i> (Welcome Swallow)			
157.		<i>Hoggicosa castanea</i>			
158.		<i>Hoggicosa forresti</i>			
159.		<i>Holoplatys kalgoorlie</i>			Y
160.		<i>Holoplatys planissima</i>			
161.	34001	<i>Hylacola cauta</i> subsp. <i>whitlocki</i> (Shy Groundwren)			
162.		<i>Idiomata blackwalli</i>			
163.		<i>Isometroides vespis</i>			
164.		<i>Isopeda magna</i>			
165.		<i>Isopedella saundersi</i>			
166.		<i>Jalmenus icilius</i>			Y
167.	24367	<i>Lalage tricolor</i> (White-winged Triller)			
168.		<i>Lampona cylindrata</i>			
169.		<i>Lamponina scutata</i>			
170.		<i>Latrodectus hasseltii</i>			
171.		<i>Lerista kingi</i>			
172.	25155	<i>Lerista muelleri</i>			
173.	25162	<i>Lerista picturata</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
174.	25172	<i>Lerista stictopleura</i>			
175.	42411	<i>Lerista timida</i>			
176.	25005	<i>Lialis burtonis</i>			
177.	25659	<i>Lichenostomus leucotis</i> (White-eared Honeyeater)			
178.	24576	<i>Lichenostomus leucotis</i> subsp. <i>novaenoriae</i> (White-eared Honeyeater)			
179.	25661	<i>Lichmera indistincta</i> (Brown Honeyeater)			
180.	41411	<i>Liopholis inornata</i> (Desert Skink)			
181.	25388	<i>Litoria moorei</i> (Motorbike Frog)			
182.	30935	<i>Lucasium maini</i>			
183.		<i>Lycosa ariadnae</i>			
184.	24132	<i>Macropus fuliginosus</i> (Western Grey Kangaroo)			
185.	24136	<i>Macropus rufus</i> (Red Kangaroo, Marlu)			
186.	24326	<i>Malacorhynchus membranaceus</i> (Pink-eared Duck)			
187.	25652	<i>Malurus leucopterus</i> (White-winged Fairy-wren)			
188.	24551	<i>Malurus pulcherrimus</i> (Blue-breasted Fairy-wren)			
189.	25654	<i>Malurus splendens</i> (Splendid Fairy-wren)			
190.	24583	<i>Manorina flavigula</i> (Yellow-throated Miner)			
191.	25663	<i>Meliphaga brevirostris</i> (Brown-headed Honeyeater)			
192.	24736	<i>Melopsittacus undulatus</i> (Budgerigar)			
193.	25184	<i>Menetia greyii</i>			
194.	24598	<i>Merops ornatus</i> (Rainbow Bee-eater)			
195.		<i>Microcarbo melanoleucos</i>			
196.	25693	<i>Microeca fascians</i> (Jacky Winter)			
197.	24654	<i>Microeca fascians</i> subsp. <i>assimilis</i> (Jacky Winter)			
198.		<i>Missulena occatoria</i>			
199.	24904	<i>Moloch horridus</i> (Thorny Devil)			
200.	25240	<i>Morelia spilota</i> subsp. <i>imbricata</i> (Carpet Python)			
201.	25188	<i>Morethia adelaidensis</i>			
202.	25190	<i>Morethia butleri</i>			
203.	24223	<i>Mus musculus</i> (House Mouse)	Y		
204.	25248	<i>Neelaps bimaculatus</i> (Black-naped Snake)			
205.	25425	<i>Neobatrachus kunapalari</i> (Kunapalari Frog)			
206.	25426	<i>Neobatrachus pelobatoides</i> (Humming Frog)			
207.	25427	<i>Neobatrachus sutor</i> (Shoemaker Frog)			
208.	25428	<i>Neobatrachus wilsmorei</i> (Plonking Frog)			
209.		<i>Nephila edulis</i>			
210.	24971	<i>Nephurus vertebralis</i>			
211.		<i>Nicodamus mainae</i>			
212.	24096	<i>Ningui yvonneae</i> (Southern Ningui)			
213.	24229	<i>Notomys mitchellii</i> (Mitchell's Hopping-mouse)			
214.	24194	<i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)			
215.	24742	<i>Nymphicus hollandicus</i> (Cockatiel)			
216.	24407	<i>Ocyphaps lophotes</i> (Crested Pigeon)			
217.	24618	<i>Oreocica gutturalis</i> (Crested Bellbird)			
218.	34011	<i>Oreocica gutturalis</i> subsp. <i>gutturalis</i> (Crested Bellbird (southern))			
219.	24085	<i>Oryctolagus cuniculus</i> (Rabbit)	Y		
220.		<i>Ostracoda</i> (unident.)			
221.		<i>Oxyopes amoenus</i>			
222.		<i>Oxyopes dingo</i>			
223.		<i>Oxyopes variabilis</i>			
224.		<i>Ozestheria packardii</i>			
225.	24619	<i>Pachycephala inornata</i> (Gilbert's Whistler)			
226.	25680	<i>Pachycephala rufiventris</i> (Rufous Whistler)			
227.		<i>Parartemia</i> sp.			
228.	25253	<i>Parasuta gouldii</i>			
229.	25254	<i>Parasuta monachus</i>			
230.	25681	<i>Pardalotus punctatus</i> (Spotted Pardalote)			
231.	25682	<i>Pardalotus striatus</i> (Striated Pardalote)			
232.	24630	<i>Pardalotus striatus</i> subsp. <i>westraliensis</i> (Striated Pardalote)			
233.	48060	<i>Petrochelidon ariel</i> (Fairy Martin)			
234.	48061	<i>Petrochelidon nigricans</i> (Tree Martin)			
235.	24659	<i>Petroica goodenovii</i> (Red-capped Robin)			
236.	24667	<i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
237.	24409	<i>Phaps chalcoptera</i> (Common Bronzewing)			
238.	24841	<i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
239.	25720	<i>Platycercus icterotis</i> (Western Rosella)			
240.	24748	<i>Platycercus varius</i> (Mulga Parrot)			
241.	25721	<i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)			
242.	24751	<i>Platycercus zonarius</i> subsp. <i>zonarius</i> (Port Lincoln Parrot)			
243.	25703	<i>Podargus strigoides</i> (Tawny Frogmouth)			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
244.	24907	<i>Pogona minor subsp. minor</i> (Dwarf Bearded Dragon)			
245.	24681	<i>Poliocephalus poliocephalus</i> (Hoary-headed Grebe)			
246.	30854	<i>Polytelis anthopeplus subsp. westralis</i> (Regent Parrot)			
247.	24683	<i>Pomatostomus superciliosus</i> (White-browed Babbler)			
248.	34013	<i>Pomatostomus superciliosus subsp. ashbyi</i> (White-browed Babbler (western wheatbelt))			
249.	24769	<i>Porzana fluminea</i> (Australian Spotted Crane)			
250.	25261	<i>Pseudechis australis</i> (Mulga Snake)			
251.	24232	<i>Pseudomys bolami</i> (Bolam's Mouse)			
252.	24237	<i>Pseudomys hermannsburgensis</i> (Sandy Inland Mouse)			
253.	42416	<i>Pseudonaja mengdeni</i> (Western Brown Snake)			
254.	25263	<i>Pseudonaja modesta</i> (Ringed Brown Snake)			
255.	25434	<i>Pseudophryne occidentalis</i> (Western Toadlet)			
256.	42344	<i>Pumella albifrons</i> (White-fronted Honeyeater)			
257.	25008	<i>Pygopus lepidopodus</i> (Common Scaly Foot)			
258.	25009	<i>Pygopus nigriceps</i>			
259.	24278	<i>Pyrrholaemus brunneus</i> (Redthroat)			
260.	24776	<i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)			
261.	48096	<i>Rhipidura albiscapa</i> (Grey Fantail)			
262.	25614	<i>Rhipidura leucophrys</i> (Willie Wagtail)			
263.	24982	<i>Rhynchoedura ornata</i> (Western Beaked Gecko)			
264.		<i>Sandalodes scopifer</i>			
265.		<i>Scolopendra laeta</i>			
266.		<i>Scolopendra morsitans</i>			
267.	24199	<i>Scotorepens balstoni</i> (Inland Broad-nosed Bat)			
268.		<i>Selenotholus foelschei</i>			
269.	25266	<i>Simoselaps bertholdi</i> (Jan's Banded Snake)			
270.	30948	<i>Smicromis brevirostris</i> (Weebill)			
271.	24108	<i>Sminthopsis crassicaudata</i> (Fat-tailed Dunnart)			
272.	24109	<i>Sminthopsis dolichura</i> (Little long-tailed Dunnart)			
273.	24111	<i>Sminthopsis gilberti</i> (Gilbert's Dunnart)			
274.	24329	<i>Stictonetta naevosa</i> (Freckled Duck)			
275.		<i>Storena sinuosa</i>			
276.	25597	<i>Strepera versicolor</i> (Grey Currawong)			
277.	25590	<i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
278.	24923	<i>Strophurus assimilis</i> (Goldfields Spiny-tailed Gecko)			
279.	24927	<i>Strophurus elderi</i>			
280.	25269	<i>Suta fasciata</i> (Rosen's Snake)			
281.	25705	<i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
282.	24207	<i>Tachyglossus aculeatus</i> (Short-beaked Echidna)			
283.	24331	<i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
284.	30870	<i>Taeniopygia guttata</i> (Zebra Finch)			
285.		<i>Tamopsis circumvidens</i>			
286.	24176	<i>Taphozous hilli</i> (Hill's Sheathtail-bat)			
287.		<i>Tasmanicosa leuckartii</i>			
288.	24845	<i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
289.	25203	<i>Tiliqua occipitalis</i> (Western Bluetongue)			
290.	25519	<i>Tiliqua rugosa</i>			
291.	25207	<i>Tiliqua rugosa subsp. rugosa</i>			
292.	42351	<i>Todiramphus pyrrhopygius</i> (Red-backed Kingfisher)			
293.	25549	<i>Todiramphus sanctus</i> (Sacred Kingfisher)			
294.	48141	<i>Tribonyx ventralis</i> (Black-tailed Native-hen)			
295.		<i>Trichocyclops balladong</i>			
296.	39407	<i>Triops australiensis</i> (Shield Shrimp)			
297.	24851	<i>Turnix velox</i> (Little Button-quail)			
298.	30814	<i>Tympanocryptis cephalus</i> (Pebble Dragon)			
299.	39408	<i>Tympanocryptis lineata</i> (Lined Earless Dragon)			
300.	24852	<i>Tyto alba subsp. delicatula</i> (Barn Owl)			
301.	24983	<i>Underwoodisaurus milii</i> (Barking Gecko)			
302.		<i>Urodacus armatus</i>			
303.		<i>Urodacus hoplurus</i>			
304.		<i>Urodacus yaschenkoi</i>			
305.	24386	<i>Vanellus tricolor</i> (Banded Lapwing)			
306.	25211	<i>Varanus caudolineatus</i>			
307.	25218	<i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
308.	25526	<i>Varanus tristis</i> (Racehorse Monitor)			
309.	24202	<i>Vespadelus baverstocki</i> (Inland Forest Bat)			
310.	24206	<i>Vespadelus regulus</i> (Southern Forest Bat)			
311.	25765	<i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			

Name	ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Conservation Codes					
T - Rare or likely to become extinct					
X - Presumed extinct					
IA - Protected under international agreement					
S - Other specially protected fauna					
1 - Priority 1					
2 - Priority 2					
3 - Priority 3					
4 - Priority 4					
5 - Priority 5					

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholly contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.



EPBC Act Protected Matters Report

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

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

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

Report created: 25/10/21 19:14:20

[Summary](#)

[Details](#)

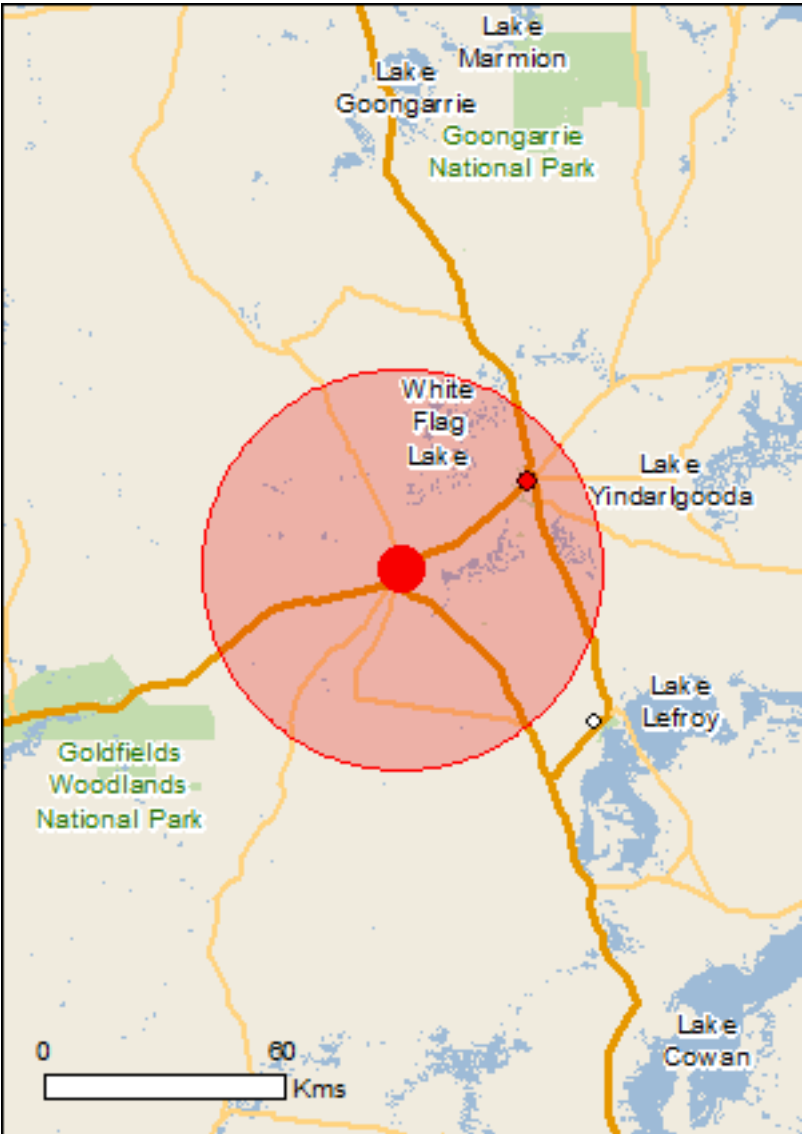
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



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[Coordinates](#)

[Buffer: 50.0Km](#)



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	1
Wetlands of International Importance:	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 environment anywhere.

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

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

Commonwealth Land:	4
Commonwealth Heritage Places:	None
Listed Marine Species:	11
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	9
Regional Forest Agreements:	None
Invasive Species:	16
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

National Heritage Properties		[Resource Information]
Name	State	Status
Historic		
Goldfields Water Supply Scheme, Western Australia	WA	Listed place

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat may occur within area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat known to occur within area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat may occur within area
Insects		
Ogyris subterrestris petrina Arid Bronze Azure [77743]	Critically Endangered	Species or species habitat may occur within area
Mammals		
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat may occur within area
Plants		
Gastrolobium graniticum Granite Poison [14872]	Endangered	Species or species habitat known to occur within area
Thelymitra stellata Star Sun-orchid [7060]	Endangered	Species or species habitat may occur within area

Listed Migratory Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		

Name	Threatened	Type of Presence
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land	[Resource Information]
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The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name
Commonwealth Land - Defence - AIRTC KALGOORLIE Defence - KALGOORLIE RIFLE RANGE Defence - KALGOORLIE TRAINING DEPOT

Listed Marine Species	[Resource Information]
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* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Chrysococcyx osculans Black-eared Cuckoo [705]		Species or species

Name	Threatened	Type of Presence
Merops ornatus Rainbow Bee-eater [670]		habitat known to occur within area Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		 Species or species habitat may occur within area
Thinornis rubricollis Hooded Plover [59510]		 Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		 Species or species habitat likely to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Goldfields Woodlands	WA
Kalgoorlie Arboretum	WA
Kambalda	WA
Kangaroo Hills Timber Reserve	WA
Kurrawang	WA
Lakeside Timber Reserve	WA
Scahill Timber Reserve	WA
Victoria Rock	WA
Yallari Timber Reserve	WA

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

Name	Status	Type of Presence
Birds		
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Streptopelia senegalensis Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area

Mammals		
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species

Name	Status	Type of Presence
		habitat likely to occur within area
Equus asinus Donkey, Ass [4]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Carrichtera annua Ward's Weed [9511]		Species or species habitat likely to occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Cylindropuntia spp. Prickly Pears [85131]		Species or species habitat likely to occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area

Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-30.92058 121.18644

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 C

Coolgardie Flora Likelihood Table

Appendix: Assessment of the Likelihood of Occurrence of Threatened and Priority Flora as per Desktop Assessment Database Searches surrounding the Survey Area

Distance to Nearest Record from the Survey Area is based on a distance analysis undertaken against 2021 DBCA database. High = Suitable habitat present and records less than 15 km from the Survey Area, Medium = Suitable habitat present and records between 15 km and 30 km from the Survey Area, and Low = No suitable habitat present and/or records greater than 30 km from the Survey Area, Unknown = Insufficient information available to classify. CR= Listed as Critically Endangered under the EPBC Act, EN = Listed as Endangered under the EPBC Act, VU = listed as Vulnerable under the EPBC Act. T = Threatened under the BC Act, P = Priority Listed, Ranked and Listed by the DBCA. Likelihoods are assessed both pre and post survey based on knowledge of the Survey Area, nearest known records, known flowering period of flora taxa and knowledge gained from the survey effort during ground truthing. 1: Department of the Environment (2021). SPRAT EPBC Threatened Flora in Species Profile and Threats Database, Department of the Environment, Canberra. Available from: <http://www.environment.gov.au/sprat>. 2: Department of Biodiversity, Conservation and Attractions (2021). FloraBase - The Western Australian Flora. <https://florabase.dpaw.wa.gov.au/>

Species	Conservation Status		Source			Distance to Nearest Record (km)	Flowering Period	Preferred Habitat	Habitat occurs within the Survey Area	Pre-Survey Likelihood of Occurrence	Post-Survey Likelihood of Occurrence
	DBCA	EPBC	NatureMap	PMST	DBCA						
<i>Gastrolobium graniticum</i>	T	EN	X	X	X	25.8	Aug to Sep.	Sand, sandy loam, granite. Margins of rock outcrops, along drainage lines. ²	No	Medium	Low
<i>Tetratheca spenceri</i>	T				X	39.1	Mar	Gentle slope on duricrust breakaway. ²	No	Low	Low
<i>Thelymitra stellata</i>	T	EN		X		12.8	Oct - Nov	Grows on ridges and slopes, flats, also on riverbanks and breakaways. Soil types are red, brown, yellow, or grey sandy loams clay or gravel over laterite or gravel. Dry, moist or saline conditions are tolerated. ¹	Yes	High	Medium
<i>Acacia coatesii</i>	P1		X			7.4	Sep	Flat to gentle slope, red sandy loam soils. ²	Yes	High	Medium
<i>Acacia epedunculata</i>	P1				X	18.6	Aug - Oct	Yellow sand. Sandplains. ²	Yes	Medium	Low
<i>Acacia sclerophylla</i> var. <i>teretiuscula</i>	P1		X			16.1	Sep - Oct	Clay and loamy soils. ²	Yes	Medium	Low
<i>Acacia websteri</i>	P1		X		X	0.7	Jun	Red sand, clay or loam. Low-lying areas, flats. ²	Yes	High	High
<i>Calandrinia lefroyensis</i>	P1				X	10.8	Feb or Apr or Oct - Nov	Light brown, orange or red sand, sandy loam, sandy clay loam over sediments. Fine quartz. Gentle slopes, near salt lakes or salt flats, sand dunes. ²	Yes	High	Medium
<i>Chamelaucium</i> sp. <i>Parker Range</i> (B.H. Smith 1255)	P1				X	19	Nov or Dec	Sandplains, Mid slope. Dry, yellow sand over laterite. ²	Yes	Medium	Low
<i>Eremophila xantholaema</i>	P1				X	17.7	Sep - Oct	Hilltop and slopes. Brown/orange/red very rocky loam/granite. ²	Yes	Medium	Low
<i>Cyathostemon divaricatus</i>	P1				X	40.5	Jan or Jun or Aug	Hills, hillslope. ²	Yes	Low	Low
<i>Dampiera plumosa</i>	P1		X			4.5	Oct	Red sandy soils. ²	Yes	High	Medium
<i>Eucalyptus websteriana</i> subsp. <i>norsemanica</i>	P1		X			8.7	Sep to Nov	Rocky rises. ²	Yes	High	Medium
<i>Lepidosperma lyonsii</i>	P1				X	70.6	Jun	Orange skeletal sandy loam with banded ironstone gravel and rock, well-drained shallow stony loam with quartz. Gentle hill slopes, upper slopes of large hill. ²	Yes	Low	Low
<i>Lepidosperma</i> sp. <i>Parker Range</i> (N. Gibson & M. Lyons 2094)	P1		X			8.3	NA	Brown sandy loam, or clay. Gravel, laterite. Banded ironstone formations, ridges, mid-slopes. ²	Yes	High	Medium

¹ Department of Agriculture, Water and Environment (2020) ²Western Australian Herbarium (2020)

Species	Conservation Status		Source			Distance to Nearest Record (km)	Flowering Period	Preferred Habitat	Habitat occurs within the Survey Area	Pre-Survey Likelihood of Occurrence	Post-Survey Likelihood of Occurrence
	DBCA	EPBC	NatureMap	PMST	DBCA						
<i>Melichrus</i> sp. <i>Coolgardie</i> (K.R. Newbey 8698)	P1				X	24.8	April or Jun or Aug - Dec	Yellow loamy sand. Sandplains. ²	Yes	Medium	Low
<i>Phebalium appressum</i>	P1		X			7.8	Jul	Yellow sandplain. ²	Yes	High	Low
<i>Philotheca apiculata</i>	P1				X	45.8	Aug - Nov	Stony clay loam. Rocky outcrops, hillsides. ²	Yes	Low	Low
<i>Philotheca pachyphylla</i>	P1				X	31.9	May or Sep	Sand, red loam, clay loam. Sandplains, hill tops. ²	Yes	Low	Low
<i>Prostanthera splendens</i>	P1				X	66.8	Aug - Oct	Stony loam, shallow soils with ironstone pebbles. Breakaways. ²	No	Low	Low
<i>Pterostylis xerampelina</i>	P1				X	66.1	Sept - Oct	Granite. ²	Yes	Low	Low
<i>Ptilotus procumbens</i>	P1				X	30.2	Nov	Red clay. ²	Yes	Low	Low
<i>Ptilotus rigidus</i>	P1				X	30.4	Mar or May or Oct - Jan	Clay, clay loam on quartz hills and edges of salt lakes. ²	Yes	Low	Low
<i>Ptilotus</i> sp. <i>Kalgoorlie</i> (J. Jackson & B. Moyle 260)	P1				X	36.1	NA	Quartz hills. ²	Yes	Low	Low
<i>Rhodanthe uniflora</i>	P1				X	44.8	Aug - Oct	Brown earth. Open <i>Eucalyptus</i> woodland. ²	Yes	Low	Low
<i>Ricinocarpos digynus</i>	P1				X	50.4	Aug	Red-brown sand-loam. Rocky hillslopes and plains. ²	Yes	Low	Low
<i>Tecticornia flabelliformis</i>	P1	VU		X	X	54.8	Dec	Clay. Saline flats. ²	Yes	Low	Low
<i>Tecticornia mellarium</i>	P1				X	58.4	NA	Close proximity to salt lakes and dunes. ²	Yes	Low	Low
<i>Thryptomene planiflora</i>	P1		X			19.1	Jul or Aug - Sep	Brown, yellow or orange sandy loam. Lateritic gravel. Gentle hillslopes, sandplains, slight depressions. ²	Yes	Medium	Medium
<i>Thryptomene</i> sp. <i>Coolgardie</i> (E. Kelso s.n. 1902)	P1		X			2.2	NA	NA	Unknown	Unknown	Medium
<i>Acacia kerryana</i>	P2				X	39.2	Oct - Dec or Jan - Feb	Granitic loamy sand, stony clayey loam or clayey sand. Low stony ridges, undulating plains. ²	Yes	Low	Low
<i>Austrostipa frankliniae</i>	P2		X			8.5	Oct - Nov	Flat plain, Basalt slope. Dry brown / red loam. ²	Yes	High	Medium
<i>Bossiaea laxa</i>	P2				X	43.3	May	Brown loam over deep granite. Sheltered positions around outcrops. ²	No	Low	Low

¹ Department of Agriculture, Water and Environment (2020) ²Western Australian Herbarium (2020)

Species	Conservation Status		Source			Distance to Nearest Record (km)	Flowering Period	Preferred Habitat	Habitat occurs within the Survey Area	Pre-Survey Likelihood of Occurrence	Post-Survey Likelihood of Occurrence
	DBCA	EPBC	NatureMap	PMST	DBCA						
<i>Elachanthus pusillus</i>	P2				X	32.1	Aug - Oct	Dry brown or red-orange loam clay. Quartz, limestone, granite. Low plains, drainage flats, gentle upper slopes. ²	Yes	Low	Low
<i>Eremophila praecox</i>	P2		X		X	17.2	Oct or Dec.	Red/brown sandy loam. Undulating plains. ²	Yes	Medium	Low
<i>Eucalyptus educta</i>	P2				X	29.7	Apr	Shallow soils. Granite rocks. ²	Yes	Medium	Medium
<i>Goodenia salina</i>	P2				X	23.9	May or Aug - Nov	Well-drained, saline, grey or brown loamy clay. Low gypseous dunes near salt pans. ²	Yes	Medium	Low
<i>Hakea rigida</i>	P2		X		X	61.3	Sep to Oct.	Sandy soils, yellow sand. ²	Yes	Low	Low
<i>Lepidium merrallii</i>	P2		X			2.5	NA	Clay loam. ²	Yes	High	Medium
<i>Lepidosperma</i> sp. <i>Kambalda</i> (A.A. Mitchell 5156)	P2				X	45.2	Dec	Lower footslope of basalt hill. ²	No	Low	Low
<i>Phebalium clavatum</i>	P2		X		X	10.1	Aug - Sep	Sandy soils. Sandplains. ²	Yes	Medium	Low
<i>Phebalium</i> sp. <i>Yerilgee Sandplain</i> (J. Jackson 223)	P2				X	52.1	Aug	Yellow, orange/red sad, loam. Sandplains. ²	Yes	Low	Low
<i>Rumex crystallinus</i>	P2				X	55.3	Annual	Arid & semi-arid areas.	Yes	Low	Low
<i>Thysanotus</i> sp. <i>Yellowdine</i> (A.S. George 6040)	P2				X	61.5	Mar or Dec	Yellow sand, sandy clay. Sandplains, undulating ridges. ²	Yes	Low	Low
<i>Acacia crenulata</i>	P3				X	23.9	April - May or Nov	Clay, sandy clay, yellow sand. ²	Yes	Medium	Low
<i>Acacia cylindrica</i>	P3				X	63.2	Aug to Oct.	Yellow/brown sand, gravelly soils. Undulating plains, flats. ²	Yes	Low	Low
<i>Allocasuarina eriochlamys</i> subsp. <i>grossa</i>	P3		X			12.7	Jul	Stony loam, laterite clay. Granite outcrops. ²	No	High	Low
<i>Alyogyne</i> sp. <i>Great Victoria Desert</i> (D.J. Edinger 6212)	P3				X	2.5	Aug or Dec	Orange, yellow or red sand, sandy loams. Flat plains. ²	Yes	High	Low
<i>Alyxia tetanifolia</i>	P3				X	21.6	May - Jun or Nov	Sandy clay, loam, concretionary gravel. Drainage lines, near lakes. ²	Yes	Medium	Low
<i>Angianthus prostratus</i>	P3				X	46.7	Jul - Sep	Red clay or loamy soils. Saline depressions. ²	Yes	Low	Low
<i>Atriplex lindleyi</i> subsp. <i>conduplicata</i>	P3				X	55.1	NA	Crabhole plains, dry, yellow bare sandy clay, by lakes. ²	Yes	Low	Low

¹ Department of Agriculture, Water and Environment (2020) ²Western Australian Herbarium (2020)

Species	Conservation Status		Source			Distance to Nearest Record (km)	Flowering Period	Preferred Habitat	Habitat occurs within the Survey Area	Pre-Survey Likelihood of Occurrence	Post-Survey Likelihood of Occurrence
	DBCA	EPBC	NatureMap	PMST	DBCA						
<i>Austrostipa blackii</i>	P3		X			1.7	Sep - Nov	Orange, red or brown clay loam, silty sand, sandy clay loam. Gravel, basalt. Winter wet depressions, rocky outcrops, hills sides. ²	Yes	High	Recorded
<i>Austrostipa turbinata</i>	P3		X			8	Sep - Oct	Hill. Brown sandy clay. ²	Yes	High	Medium
<i>Bossiaea celata</i>	P3				X	23.3	Sep - Oct	Deep sand. Open mallee. ²	No	Medium	Low
<i>Bossiaea concinna</i>	P3				X	68.3	Jun - Sep	White or red sand, gravel. ²	Yes	Low	Low
<i>Calytrix creswellii</i>	P3				X	69.3	Sep to Dec.	Yellow sand, sometimes with lateritic gravel. Sandplains. ²	Yes	Low	Low
<i>Chrysocephalum apiculatum</i> subsp. <i>norsemanense</i>	P3		X			2.1	Aug - Oct	Well-drained loamy sand. Moderately exposed, gentle undulating plains, hills. ²	Yes	High	Medium
<i>Cratystylis centralis</i>	P3				X	39.2	Oct	Red sandy loam with ironstone gravel. Flat plains, breakaway country. ²	Yes	Low	Low
<i>Cryptandra crispula</i>	P3				X	42.7	Aug - Sep	Brown sandy clay, yellow loamy sand, red soil, pebbles. Dune ridges, hills, near salt lakes. ²	Yes	Low	Low
<i>Cyathostemon verrucosus</i>	P3				X	43.9	Apr or Jul or Aug or Oct	Yellow sand, gentle undulating plain. ²	Yes	Low	Low
<i>Eremophila annosocaulis</i>	P3				X	69.8	Sep	Stony, flat, sandy plain. Red sand. ²	Yes	Low	Low
<i>Eremophila arachnoides</i> subsp. <i>tenera</i>	P3				X	71.1	Oct - Dec	Undulating plains, Saline plains, drainage, clay. ²	Yes	Low	Low
<i>Eremophila veronica</i>	P3		X			0.5	Apr to May.	Stony clay, clay loam. Lateritic breakaways. ²	No	High	High
<i>Eucalyptus exigua</i>	P3				X	48.7	Mar - Apr or Oct or Dec	Sandy loam, white sand. Sandplains. ²	Yes	Low	Low
<i>Eucalyptus frenchiana</i>	P3				X	42.2	Oct	Brown or orange loam, sand or sandy clay. Granite. Flat plains, low undulating plains. ²	Yes	Low	Low
<i>Eutaxia actinophylla</i>	P3				X	64.8	Sep to Oct.	Red-brown clay loam, red clay loam over granite, gravel. Small depressions.	Yes	Low	Low
<i>Gompholobium cinereum</i>	P3				X	19.9	Feb or May or Sep - Nov	Yellow sand, clayey sand, brown loam, sandy gravel, laterite. Well-drained open sites, slopes, plains, roadsides. ²	Yes	Medium	Low
<i>Grevillea georgeana</i>	P3		X		X	1.1	Jan or Mar or Sep to Nov.	Stony loam/clay. Ironstone hilltops & slopes.	Yes	High	Medium

Appendix D

Inventory of Vascular Flora

Appendix: Inventory of Vascular Flora

Family	Taxon
Aizoaceae	<i>Carpobrotus</i> sp.
Amaranthaceae	<i>Ptilotus exaltatus</i>
	<i>Ptilotus holosericeus</i>
	<i>Ptilotus obovatus</i> var. <i>obovatus</i>
	<i>Ptilotus polystachyus</i>
Anacardiaceae	* <i>Schinus molle</i> var. <i>areira</i>
Apocynaceae	<i>Alyxia buxifolia</i>
	<i>Leichhardtia australis</i>
	<i>Marsdenia australis</i>
	<i>Vincetoxicum lineare</i>
Asparagaceae	* <i>Agave americana</i>
	<i>Thysanotus manglesianus</i>
Asphodelaceae	* <i>Asphodelus fistulosus</i>
Asteraceae	* <i>Centaurea melitensis</i>
	<i>Chrysocephalum puteale</i>
	<i>Cratystylis conocephala</i>
	<i>Olearia muelleri</i>
	<i>Olearia pimeleoides</i>
	* <i>Oligocarpus calendulaceus</i>
	<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>
	* <i>Sonchus asper</i>
	<i>Streptoglossa liatroides</i>
	<i>Vittadinia dissecta</i> var. <i>hirta</i>
	<i>Waitzia acuminata</i> var. <i>acuminata</i>
Boraginaceae	<i>Halgania andromedifolia</i>
	<i>Heliotropium curassavicum</i>
	* <i>Heliotropium europaeum</i>
Brassicaceae	* <i>Carrichtera annua</i>
Cactaceae	<i>Opuntia stricta</i>
Casuarinaceae	<i>Allocasuarina ?huegeliana</i>
	<i>Casuarina pauper</i>
Chenopodiaceae	<i>Atriplex ?holocarpa</i>
	<i>Atriplex ?vesicaria</i>
	<i>Atriplex nummularia</i> subsp. <i>spathulata</i>
	<i>Atriplex quadrivalvata</i>
	<i>Atriplex</i> sp.
	<i>Atriplex vesicaria</i>
	<i>Chenopodium curvispicatum</i>
	<i>Dysphania melanocarpa</i> forma <i>leucocarpa</i>
	? <i>Enchylaena tomentosa</i>
	<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>
	<i>Maireana ?georgei</i>
	<i>Maireana ?marginata</i>
	<i>Maireana georgei</i>
	<i>Maireana pentatropis</i>
	<i>Maireana sedifolia</i>
	<i>Maireana tomentosa</i>
	<i>Maireana trichoptera</i>
	<i>Maireana triptera</i>

Appendix: Inventory of Vascular Flora

Family	Taxon
Chenopodiaceae	<i>Osteocarpum salsuginosum</i>
	<i>Rhagodia drummondii</i>
	<i>Salsola australis</i>
	<i>Sclerolaena cuneata</i>
	<i>Sclerolaena diacantha</i>
	<i>Sclerolaena fusiformis</i>
	<i>Sclerolaena obliquicuspis</i>
	<i>Tecticornia halocnemoides</i>
Crassulaceae	* <i>Crassula ovata</i>
Euphorbiaceae	* <i>Euphorbia drummondii</i>
Fabaceae	<i>Acacia acuminata</i>
	<i>Acacia collegialis</i>
	<i>Acacia dissona</i> var. <i>dissona</i>
	<i>Acacia erinacea</i>
	<i>Acacia hemiteles</i>
	<i>Acacia jennerae</i>
	<i>Acacia tetragonophylla</i>
	<i>Acacia xerophila</i> var. <i>brevior</i>
	<i>Senna artemisioides</i> subsp. <i>artemisioides</i>
	<i>Senna artemisioides</i> subsp. <i>filifolia</i>
	<i>Senna artemisioides</i> subsp. x <i>artemisioides</i>
	<i>Senna stowardii</i>
Frankeniaceae	<i>Frankenia ?fecunda</i>
Goodeniaceae	<i>Goodenia havilandii</i>
	<i>Goodenia pinnatifida</i>
	<i>Scaevola spinescens</i>
Haloragaceae	<i>Haloragis trigonocarpa</i>
Hemerocallidaceae	<i>Dianella revoluta</i> var. <i>divaricata</i>
Lamiaceae	* <i>Salvia verbenaca</i>
	<i>Westringia rigida</i>
Malvaceae	<i>Abutilon cryptopetalum</i>
	<i>Hibiscus solanifolius</i>
	<i>Hibiscus sturtii</i> var. <i>grandiflorus</i>
	<i>Lawrenzia repens</i>
	<i>Malvaceae</i> sp.
	<i>Sida petrophila</i>
	<i>Sida ?petrophila</i>
	<i>Calothamnus ?gracilis</i>
	<i>Eucalyptus ?ravida</i>
	<i>Eucalyptus campaspe</i>
	<i>Eucalyptus celastroides</i>
	<i>Eucalyptus clelandiorum</i>
	<i>Eucalyptus griffithsii</i>
	<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>
	<i>Eucalyptus oldfieldii</i>
	<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>
	<i>Eucalyptus salmonophloia</i>
	<i>Eucalyptus salubris</i>
	<i>Eucalyptus torquata</i>

Appendix: Inventory of Vascular Flora

Family	Taxon
Myrtaceae	<i>Eucalyptus websteriana</i> subsp. <i>websteriana</i>
	<i>Melaleuca ?hamata</i>
	<i>Melaleuca pauperiflora</i> subsp. <i>fastigiata</i>
Pittosporaceae	<i>Pittosporum angustifolium</i>
Poaceae	<i>Aristida contorta</i>
	<i>Austrostipa blackii</i> (P3)
	<i>Austrostipa platychaeta</i>
	<i>Austrostipa</i> sp.
	<i>Austrostipa trichophylla</i>
	<i>Chloris truncata</i>
	<i>Enneapogon caerulescens</i>
	<i>Eragrostis dielsii</i>
	<i>Monachather paradoxus</i>
	<i>Rytidosperma</i> sp.
	<i>Triodia desertorum</i>
Polygonaceae	* <i>Rumex vesicarius</i>
Portulacaceae	<i>Calandrinia baccata</i>
	<i>Calandrinia eremaea</i>
Pteridaceae	<i>Cheilanthes lasiophylla</i>
	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>
Rhamnaceae	<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>
Rutaceae	<i>Phebalium laevigatum</i>
Santalaceae	<i>Exocarpos aphyllus</i>
	<i>Santalum acuminatum</i>
	<i>Santalum spicatum</i>
Sapindaceae	<i>Dodonaea adenophora</i>
	<i>Dodonaea lobulata</i>
	<i>Dodonaea stenozyga</i>
Scrophulariaceae	<i>Eremophila alternifolia</i>
	<i>Eremophila deserti</i>
	<i>Eremophila forrestii</i>
	<i>Eremophila georgei</i>
	<i>Eremophila glabra</i> subsp. <i>glabra</i>
	<i>Eremophila interstans</i> subsp. <i>interstans</i>
	<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>
	<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>
	<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>
	<i>Eremophila scoparia</i>
	<i>Myoporum platycarpum</i> subsp. <i>platycarpum</i>
Solanaceae	<i>Lycium australe</i>
	* <i>Nicotiana glauca</i>
	<i>Nicotiana rotundifolia</i>
	<i>Solanum cleistogamum</i>
	<i>Solanum lasiophyllum</i>
	<i>Solanum nummularium</i>
Thymelaeaceae	? <i>Pimelea</i> sp.
	<i>Pimelea microcephala</i> subsp. <i>microcephala</i>
	<i>Pimelea spiculigera</i> var. <i>thesioides</i>
Zygophyllaceae	<i>Roepera glauca</i>

Appendix: Inventory of Vascular Flora

Family	Taxon
Zygophyllaceae	<i>Roepera ovata</i>
	<i>Roepera</i> sp.

Appendix E

Flora Site Data

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q01
Location MGA 50 326500 mE 6578134 mN

Described by: JW
Date: 12/10/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Laterite, quartz



Vegetation: *Eremophila georgei* tall open shrubland over *Dodonaea lobulata* mid open shrubland over *Ptilotus obovatus* var. *obovatus*, *Sida petrophila* and *Vincetoxicum lineare* low open herbland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Abutilon cryptopetalum</i>	10	0.1	
<i>Aristida contorta</i>	10	0.1	
<i>Austrostipa blackii</i> (P3)	10	1	
<i>Calandrinia eremaea</i>	10	0.1	
<i>Dodonaea lobulata</i>	150	12	
<i>Eremophila georgei</i>	300	28	
<i>Nicotiana rotundifolia</i>	10	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	35	16	
<i>Sida petrophila</i>	25	11	
<i>Solanum cleistogamum</i>	10	0.1	
<i>Solanum lasiophyllum</i>	25	1	
<i>Vincetoxicum lineare</i>	10	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q02
Location MGA 50 326422 mE 6578029 mN

Described by: JW
Date: 12/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, quartz



Vegetation: *Eucalyptus celastroides* and *Eucalyptus clelandiorum* low woodland over *Eremophila scoparia* mid sparse shrubland over *Atriplex* sp., *Atriplex vesicaria* and *Atriplex nummularia* subsp. *spathulata* low open shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	35	6	
<i>Atriplex</i> sp.	35	16	
<i>Atriplex vesicaria</i>	50	7	
<i>Dodonaea stenozyga</i>	25	1	
<i>Eremophila scoparia</i>	120	6	
<i>Eucalyptus celastroides</i>	500	16	
<i>Eucalyptus clelandiorum</i>	1000	5	
<i>Exocarpos aphyllus</i>	45	1	
<i>Haloragis trigonocarpa</i>	25	0.5	
<i>Lycium australe</i>	40	2	
<i>Ptilotus holosericeus</i>	5	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	35	1	
<i>Roepera</i> sp.	10	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q03
Location MGA 50 327421 mE 6577933 mN

Described by: JW
Date: 12/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, quartz



Vegetation: *Eucalyptus campaspe* low woodland over *Eremophila scoparia* mid sparse shrubland over *Senna artemisioides* subsp. *x artemisioides*, *Atriplex* sp. and *Olearia muelleri* low open shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex</i> sp.	40	6	
* <i>Carrichtera annua</i>	25	2	
<i>Eremophila scoparia</i>	140	3	
<i>Eucalyptus campaspe</i>	300	26	
<i>Olearia muelleri</i>	50	6	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	20	2	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	100	12	
<i>Streptoglossa liatroides</i>	5	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q04
Location MGA 50 327671 mE 6577991 mN

Described by: JW
Date: 12/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: N/A



Vegetation: *Exocarpos aphyllus*, *Eremophila oldfieldii* subsp. *angustifolia* and *Acacia tetragonophylla* mid shrubland over *Dodonaea lobulata* mid open shrubland over *Scaevola spinescens*, *Olearia muelleri* and *Eremophila alternifolia* low open shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia tetragonophylla</i>	180	6	
<i>Dodonaea lobulata</i>	110	12	
<i>Eremophila alternifolia</i>	50	1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	200	12	
<i>Exocarpos aphyllus</i>	200	26	
<i>Lycium australe</i>	5	0.1	
<i>Maireana georgei</i>	18	1	
<i>Marsdenia australis</i>	10	1	
<i>Olearia muelleri</i>	45	2	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	20	1	
<i>Scaevola spinescens</i>	100	6	
<i>Thysanotus manglesianus</i>	100	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q05
Location MGA 50 327597 mE 6577741 mN

Described by: JW
Date: 12/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, quartz



Vegetation: *Eucalyptus clelandiorum* and *Eucalyptus campaspe* low open woodland over *Eremophila scoparia* and *Senna artemisioides* subsp. *x artemisioides* mid open shrubland over *Cheilanthes lasiophylla* and *Ptilotus obovatus* var. *obovatus* low sparse herbland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Cheilanthes lasiophylla</i>	15	4	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	35	0.1	
<i>Eremophila scoparia</i>	200	20	
<i>Eucalyptus campaspe</i>	300	4	
<i>Eucalyptus clelandiorum</i>	500	5	
<i>Maireana</i> ? <i>marginata</i>	5	1	
<i>Olearia muelleri</i>	20	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	30	1	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	130	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q06
Location MGA 50 327323 mE 6576260 mN

Described by: JW
Date: 12/10/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Laterite, quartz



Vegetation: *Exocarpos aphyllus* tall open shrubland over *Dodonaea lobulata* and *Dodonaea adenophora* low shrubland over *Haloragis trigonocarpa*, *Thysanotus manglesianus* and *Ptilotus obovatus* var. *obovatus* low open hermland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Dodonaea adenophora</i>	100	12	
<i>Dodonaea lobulata</i>	90	25	
<i>Exocarpos aphyllus</i>	220	11	
<i>Haloragis trigonocarpa</i>	10	11	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	20	1	
<i>Thysanotus manglesianus</i>	20	2	
<i>Waitzia acuminata</i> var. <i>acuminata</i>	18	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q07
Location MGA 50 328895 mE 6577682 mN

Described by: JW
Date: 13/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, quartz



Vegetation: *Eucalyptus torquata* low woodland over *Exocarpos aphyllus* mid sparse shrubland over *Westringia rigida*, *Olearia muelleri* and *Scaevola spinescens* low shrubland

Condition: Excellent **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	40	5	
<i>Eucalyptus torquata</i>	400	12	
<i>Exocarpos aphyllus</i>	110	1	
<i>Olearia muelleri</i>	25	11	
<i>Scaevola spinescens</i>	40	6	
<i>Westringia rigida</i>	40	16	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q08
Location MGA 50 328889 mE 6577825 mN

Described by: JW
Date: 13/10/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: N/A



Vegetation: *Eucalyptus campaspe* and *Eucalyptus griffithsii* low open woodland over *Eremophila scoparia*, *Senna artemisioides* subsp. *filifolia* and *Exocarpos aphyllus* mid shrubland over *Senna artemisioides* subsp. *x artemisioides*, *Acacia erinacea* and *Olearia muelleri* low shrubland

Condition: Excellent **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia erinacea</i>	40	13	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	200	4	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	35	1	
<i>Eremophila scoparia</i>	140	23	
<i>Eucalyptus campaspe</i>	400	5	
<i>Eucalyptus griffithsii</i>	500	5	
<i>Exocarpos aphyllus</i>	200	8	
<i>Lycium australe</i>	100	0.1	
<i>Maireana georgei</i>	20	0.1	
<i>Myoporum platycarpum</i> subsp. <i>platycarpum</i>	100	1	
<i>Olearia muelleri</i>	35	3	
<i>Santalum acuminatum</i>	55	1	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	100	15	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	140	10	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q09
Location MGA 50 328932 mE 6578002 mN

Described by: JW
Date: 13/10/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Laterite



Vegetation: *Eucalyptus oleosa* subsp. *oleosa* low open woodland over *Eremophila oldfieldii* subsp. *angustifolia*, *Senna artemisioides* subsp. *filifolia* and *Trymalium myrtillus* subsp. *myrtillus* mid shrubland over *Westringia rigida*, *Eremophila parvifolia* subsp. *auricampi* and *Calothamnus ?gracilis* low shrubland

Condition: Excellent **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia jennerae</i>	25	1	
<i>Alyxia buxifolia</i>	40	1	
<i>Atriplex vesicaria</i>	60	5	
<i>Calothamnus ?gracilis</i>	70	6	
<i>Dodonaea stenozyga</i>	185	5	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	200	15	
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	130	5	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	50	12	
<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>	700	10	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	15	1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	200	11	
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	140	11	
<i>Westringia rigida</i>	25	15	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q10
Location MGA 50 328368 mE 6578263 mN

Described by: JW
Date: 13/10/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: N/A



Vegetation: *Eucalyptus griffithsii* low open woodland over *Acacia jennerae*, *Eremophila oldfieldii* subsp. *angustifolia* and *Exocarpos aphyllus* mid open shrubland over *Eremophila glabra* subsp. *glabra*, *Dodonaea stenozyga* and *Olearia pimeleoides* low shrubland

Condition: Excellent **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia jennerae</i>	110	10	
<i>Aristida contorta</i>	100	1	
<i>Dodonaea stenozyga</i>	100	6	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	60	18	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	120	5	
<i>Eucalyptus griffithsii</i>	400	5	
<i>Exocarpos aphyllus</i>	130	5	
<i>Olearia pimeleoides</i>	25	6	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	10	0.1	
<i>Santalum spicatum</i>	180	3	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	120	5	
<i>Westringia rigida</i>	20	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q20
Location MGA 50 328215 mE 6578113 mN

Described by: JW
Date: 13/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite



Vegetation: *Eucalyptus griffithsii* low open woodland over *Eremophila oldfieldii* subsp. *angustifolia* tall open shrubland over *Eremophila interstans* subsp. *interstans* mid open shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia jennerae</i>	100	5	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	120	15	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	300	19	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	45	6	
<i>Eucalyptus griffithsii</i>	400	2	
<i>Maireana sedifolia</i>	80	3	
<i>Olearia pimeleoides</i>	30	5	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	100	2	
<i>Sida petrophila</i>	28	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q21
Location MGA 50 326536 mE 6577327 mN

Described by: JW
Date: 13/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite



Vegetation: *Dodonaea stenozyga*, *Senna artemisioides* subsp. *filifolia* and *Eremophila oldfieldii* subsp. *angustifolia* mid closed shrubland over *Atriplex vesicaria* low sparse shrubland over *Ptilotus obovatus* var. *obovatus* low open hermland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex vesicaria</i>	80	5	
<i>Dodonaea stenozyga</i>	180	40	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	140	15	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	28	16	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	180	20	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q22
Location MGA 50 326045 mE 6577335 mN

Described by: JW
Date: 13/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, quartz



Vegetation: *Eucalyptus salmonophloia* low open woodland over *Senna artemisioides* subsp. *x artemisioides* and *Senna artemisioides* subsp. *filifolia* low sparse shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eucalyptus salmonophloia</i>	600	5	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	45	6	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	35	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q23
Location MGA 50 326813 mE 6577450 mN

Described by: JW
Date: 14/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, quartz



Vegetation: *Eucalyptus salmonophloia* low woodland over *Senna artemisioides* subsp. *x artemisioides*, *Senna artemisioides* subsp. *filifolia* and *Eremophila parvifolia* subsp. *auricampi* low sparse shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	35	1	
<i>Eucalyptus salmonophloia</i>	1000	19	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	100	2	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	75	2	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q24
Location MGA 50 326578 mE 6577758 mN

Described by: JW
Date: 14/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, quartz



Vegetation: *Eucalyptus campaspe* low woodland over *Senna artemisioides* subsp. *x artemisioides* mid sparse shrubland over *Senna artemisioides* subsp. *filifolia* low sparse shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eucalyptus campaspe</i>	400	15	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	130	2	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	45	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q25
Location MGA 50 326770 mE 6578110 mN

Described by: JW
Date: 14/10/2021
Type: QUADRAT

Landform: Upper slope
Rock Type: N/A



Vegetation: *Acacia acuminata* tall open shrubland over *Eremophila oldfieldii* subsp. *angustifolia* mid sparse shrubland over *Sida petrophila*, *Solanum lasiophyllum* and *Dodonaea stenozyga* low open shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	400	20	
<i>Austrostipa</i> sp.	10	1	
<i>Dodonaea stenozyga</i>	50	1	
<i>Eremophila georgei</i>	20	0.1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	130	10	
<i>Haloragis trigonocarpa</i>	10	3	
<i>Ptilotus exaltatus</i>	30	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	20	1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	30	0.1	
<i>Sida petrophila</i>	100	5	
<i>Solanum lasiophyllum</i>	30	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q26
Location MGA 50 327707 mE 6577970 mN

Described by: JW
Date: 14/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: N/A



Vegetation: *Eremophila oldfieldii* subsp. *angustifolia*, *Dodonaea lobulata* and *Senna artemisioides* subsp. *x artemisioides* mid shrubland over *Ptilotus obovatus* var. *obovatus* low sparse herbland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Dodonaea lobulata</i>	140	12	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	190	20	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	35	1	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	170	12	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	200	10	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q27
Location MGA 50 327762 mE 6578035 mN

Described by: JW
Date: 14/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: N/A



Vegetation: *Eucalyptus torquata* low open woodland over *Eremophila interstans* subsp. *interstans*, *Senna artemisioides* subsp. *filifolia* and *Olearia muelleri* low sparse shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eremophila interstans</i> subsp. <i>interstans</i>	50	2	
<i>Eucalyptus torquata</i>	500	8	
<i>Exocarpos aphyllus</i>	25	0.1	
<i>Maireana tomentosa</i>	10	1	
<i>Olearia muelleri</i>	35	1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	55	2	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q28
Location MGA 50 327436 mE 6575925 mN

Described by: JW
Date: 14/10/2021
Type: QUADRAT

Landform: Gentle slope
Rock Type: Laterite



Vegetation: *Acacia acuminata* tall open shrubland over *Eremophila oldfieldii* subsp. *angustifolia* mid sparse shrubland over *Dodonaea stenozyga* and *Senna artemisioides* subsp. *filifolia* low closed shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	300	15	
<i>Austrostipa platychaeta</i>	18	2	
<i>Calandrinia baccata</i>	10	2	
<i>Dodonaea stenozyga</i>	80	70	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	120	6	
<i>Goodenia havilandii</i>	18	1	
<i>Haloragis trigonocarpa</i>	18	1	
<i>Lycium australe</i>	10	0.1	
<i>Maireana pentatropis</i>	10	0.1	
<i>Ptilotus exaltatus</i>	25	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	40	1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	100	5	
<i>Thysanotus manglesianus</i>	20	3	
<i>Waitzia acuminata</i> var. <i>acuminata</i>	15	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q29
Location MGA 50 328203 mE 6575013 mN

Described by: JW
Date: 14/10/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite



Vegetation: *Eucalyptus torquata* low open woodland over *Eremophila oldfieldii* subsp. *angustifolia*, *Senna artemisioides* subsp. *x artemisioides* and *Dodonaea stenozyga* mid open shrubland over *Ptilotus obovatus* var. *obovatus* and *Ptilotus exaltatus* low sparse herbland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia jennerae</i>	45	1	
<i>Dodonaea stenozyga</i>	150	3	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	200	6	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	35	3	
<i>Eucalyptus torquata</i>	400	5	
<i>Olearia muelleri</i>	25	1	
<i>Ptilotus exaltatus</i>	20	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	35	3	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	190	6	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	190	3	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1Q30
Location MGA 50 328220 mE 6575082 mN

Described by: JW
Date: 14/10/2021
Type: QUADRAT

Landform: Rocky plain
Rock Type: Laterite



Vegetation: *Allocasuarina ?huegeliana* and *Eucalyptus torquata* low woodland over *Santalum spicatum* and *Eremophila oppositifolia* subsp. *angustifolia* mid sparse shrubland over *Dodonaea stenozyga*, *Eremophila glabra* subsp. *glabra* and *Atriplex vesicaria* low open shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Allocasuarina ?huegeliana</i>	400	6	
<i>Atriplex vesicaria</i>	100	3	
<i>Dodonaea stenozyga</i>	80	6	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	90	6	
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	190	1	
<i>Eucalyptus torquata</i>	700	5	
<i>Maireana pentatropis</i>	25	0.1	
<i>Ptilotus exaltatus</i>	20	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	15	1	
<i>Santalum spicatum</i>	150	2	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	100	3	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1R01
Location MGA 50 328967 mE 6577693 mN

Described by: JW
Date: 13/10/2021
Type: RELEVÉ

Landform: Plain
Rock Type: N/A



Vegetation: *Eucalyptus torquata* low open woodland over *Exocarpos aphyllus* tall sparse shrubland over *Eremophila parvifolia* subsp. *auricampi*, *Westringia rigida* and *Senna artemisioides* subsp. *filifolia* low sparse shrubland

Condition: Excellent **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	32	3	
<i>Eucalyptus torquata</i>	400	5	
<i>Exocarpos aphyllus</i>	220	6	
<i>Olearia muelleri</i>	40	1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	35	2	
<i>Westringia rigida</i>	35	3	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1R02
Location MGA 50 328922 mE 6577745 mN

Described by: JW
Date: 13/10/2021
Type: RELEVÉ

Landform: Plain
Rock Type: N/A



Vegetation: *Eucalyptus torquata* low woodland over *Eremophila interstans* subsp. *interstans* mid sparse shrubland over *Senna artemisioides* subsp. *filifolia*, *Olearia muelleri* and *Westringia rigida* low open shrubland

Condition: Excellent **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eremophila georgei</i>	28	0.1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	200	4	
<i>Eucalyptus torquata</i>	500	16	
<i>Olearia muelleri</i>	25	4	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	40	6	
<i>Westringia rigida</i>	25	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1R03
Location MGA 50 329002 mE 6577925 mN

Described by: JW
Date: 13/10/2021
Type: RELEVE

Landform: Plain
Rock Type: Laterite



Vegetation: *Eucalyptus torquata* low open woodland over *Eremophila alternifolia* tall sparse shrubland over *Dodonaea stenozyga* and *Eremophila oldfieldii* subsp. *angustifolia* mid sparse shrubland

Condition: Excellent **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia jennerae</i>	60	2	
<i>Dodonaea stenozyga</i>	120	5	
<i>Eremophila alternifolia</i>	210	2	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	110	5	
<i>Eucalyptus torquata</i>	400	2	
<i>Maireana tomentosa</i>	25	1	
<i>Westringia rigida</i>	25	2	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1R04
Location MGA 50 326478 mE 6577408 mN

Described by: JW
Date: 13/10/2021
Type: RELEVÉ

Landform: Plain
Rock Type: Laterite, quartz



Vegetation: *Eremophila oldfieldii* subsp. *angustifolia* tall open shrubland over *Senna artemisioides* subsp. *x* *artemisioides* and *Senna artemisioides* subsp. *filifolia* mid open shrubland over *Ptilotus obovatus* var. *obovatus* low open herbland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Dodonaea stenozyga</i>	100	12	
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	45	1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	250	15	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	25	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	45	28	
<i>Senna artemisioides</i> subsp. <i>x</i> <i>artemisioides</i>	120	10	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	110	6	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1R05
Location MGA 50 326536 mE 6577327 mN

Described by: JW
Date: 13/10/2021
Type: RELEVÉ

Landform: Mid slope
Rock Type: N/A



Vegetation: *Eucalyptus torquata* and *Eucalyptus salmonophloia* low woodland over *Exocarpos aphyllus* mid sparse shrubland over *Senna artemisioides* subsp. *filifolia* and *Senna artemisioides* subsp. *x artemisioides* low open shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eucalyptus salmonophloia</i>	500	10	
<i>Eucalyptus torquata</i>	400	5	
<i>Exocarpos aphyllus</i>	140	2	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	45	1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	90	11	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1R09
Location MGA 50 326358 mE 6577538 mN

Described by: JW
Date: 14/10/2021
Type: RELEVE

Landform: Plain
Rock Type: Laterite



Vegetation: *Eucalyptus celastroides* and *Eucalyptus clelandiorum* low woodland over *Atriplex vesicaria* low sparse shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex vesicaria</i>	40	1	
<i>Eucalyptus celastroides</i>	400	6	
<i>Eucalyptus clelandiorum</i>	400	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1R10
Location MGA 50 326982 mE 6578150 mN

Described by: JW
Date: 14/10/2021
Type: RELEVE

Landform: Undulating plain
Rock Type: N/A



Vegetation: *Eucalyptus clelandiorum* low open woodland over *Senna artemisioides* subsp. *x artemisioides*, *Atriplex vesicaria* and *Eremophila interstans* subsp. *interstans* low open shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex vesicaria</i>	28	1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	45	1	
<i>Eucalyptus clelandiorum</i>	1000	5	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	35	10	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1R11
Location MGA 50 327829 mE 6578083 mN

Described by: JW
Date: 14/10/2021
Type: RELEVÉ

Landform: Plain
Rock Type: Laterite, quartz



Vegetation: *Eucalyptus torquata* mid open woodland over *Eremophila interstans* subsp. *interstans* mid open shrubland over *Senna artemisioides* subsp. *x artemisioides*, *Senna artemisioides* subsp. *filifolia* and *Acacia jennerae* low open shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia jennerae</i>	10	3	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	150	16	
<i>Eucalyptus torquata</i>	1500	5	
<i>Olearia muelleri</i>	35	2	
<i>Senna artemisioides</i> subsp. <i>x artemisioides</i>	40	5	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	25	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C1R13
Location MGA 50 327488 mE 6575973 mN

Described by: JW
Date: 14/10/2021
Type: RELEVE

Landform: Undulating plain
Rock Type: N/A



Vegetation: *Eucalyptus clelandiorum*, *Eucalyptus salmonophloia* and *Eucalyptus griffithsii* low woodland over *Eremophila interstans* subsp. *interstans* and *Eremophila oldfieldii* subsp. *angustifolia* tall open shrubland over *Atriplex nummularia* subsp. *spathulata* and *Dodonaea stenozyga* low open shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	45	11	
<i>Dodonaea stenozyga</i>	10	6	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	220	11	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	200	10	
<i>Eucalyptus clelandiorum</i>	500	6	
<i>Eucalyptus griffithsii</i>	300	5	
<i>Eucalyptus salmonophloia</i>	400	6	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q01
Location MGA 50 326721 mE 6571821 mN

Described by: JW
Date: 15/11/2021
Type: QUADRAT

Landform: Scree slope drain line No photo available
Rock Type: Laterite

Vegetation: *Eucalyptus loxophleba* subsp. *lissophloia* and *Eucalyptus campaspe* low open woodland over *Eremophila oldfieldii* subsp. *angustifolia* mid sparse shrubland over *Dodonaea adenophora* and *Olearia muelleri* low sparse shrubland
Condition: Good **Disturbance Type:** Fauna tracks/scats, Infrastructure

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Dodonaea adenophora</i>	35	1	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	5	0.1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	130	2	
<i>Eucalyptus campaspe</i>	300	1	
<i>Eucalyptus loxophleba</i> subsp. <i>lissophloia</i>	300	2	
<i>Maireana georgei</i>	15	0.1	
<i>Olearia muelleri</i>	25	0.5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q02
Location MGA 50 324588 mE 6571695 mN

Described by: BD,SW
Date: 15/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Ironstone



Vegetation: *Eucalyptus salmonophloia* low woodland over *Melaleuca ?hamata* and *Eremophila oppositifolia* subsp. *angustifolia* tall open shrubland over *Olearia muelleri* low sparse shrubland

Condition: Very Good **Disturbance Type:** Litter

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	40	0.1	
<i>Acacia hemiteles</i>	160	1	
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	40	0.1	
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	250	4	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	60	0.1	
<i>Eucalyptus salmonophloia</i>	650	12	
<i>Exocarpos aphyllus</i>	150	0.5	
<i>Melaleuca ?hamata</i>	300	11	
<i>Olearia muelleri</i>	45	5	
<i>Olearia pimeleoides</i>	30	0.1	
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>	50	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	30	0.1	
<i>Scaevola spinescens</i>	120	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q03
Location MGA 50 327534 mE 6572097 mN

Described by: JW
Date: 15/11/2021
Type: QUADRAT

Landform: Drainage line No photo available
Rock Type: Laterite

Vegetation: *Atriplex ?vesicaria and Senna artemisioides subsp. x artemisioides low sparse shrubland*

Condition: Good **Disturbance Type:** Vehicle tracks

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	100	5	
<i>Eremophila forrestii</i>	20	0.1	
<i>Eremophila scoparia</i>	130	0.1	
<i>Maireana georgei</i>	5	0.1	
<i>Senna artemisioides subsp. x artemisioides</i>	60	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q04
Location MGA 50 324603 mE 6571566 mN

Described by: BD,SW
Date: 15/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Ironstone



Vegetation: *Eucalyptus ?ravida* low open forest over *Eremophila interstans* subsp. *interstans*, *Melaleuca ?hamata* and *Melaleuca pauperiflora* subsp. *fastigiata* tall open shrubland over *Triodia desertorum* low sparse hummock grassland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	170	0.1	
<i>Acacia hemiteles</i>	140	0.1	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	35	0.1	
<i>Dodonaea lobulata</i>	100	0.1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	210	11	
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	110	0.1	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	30	0.1	
<i>Eucalyptus ?ravida</i>	550	35	
<i>Exocarpos aphyllus</i>	90	0.1	
<i>Halgania andromedifolia</i>	70	6	
<i>Maireana georgei</i>	30	0.1	
<i>Melaleuca ?hamata</i>	250	2	
<i>Melaleuca pauperiflora</i> subsp. <i>fastigiata</i>	350	1	
<i>Myoporum platycarpum</i> subsp. <i>platycarpum</i>	210	1	
<i>Olearia muelleri</i>	30	0.1	
<i>Phebalium laevigatum</i>	120	1	
<i>Scaevola spinescens</i>	45	5	
<i>Sclerolaena fusiformis</i>	10	0.1	
<i>Triodia desertorum</i>	25	2	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q05
Location MGA 50 327403 mE 6572169 mN

Described by: JW
Date: 15/11/2021
Type: QUADRAT

Landform: Scree slope minor drain No photo available
Rock Type: Laterite

Vegetation: *Eucalyptus campaspe* low open woodland over *Eremophila oldfieldii* subsp. *angustifolia* tall open shrubland over *Dodonaea stenozyga*, *Alyxia buxifolia* and *Eremophila glabra* subsp. *glabra* low open shrubland
Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Alyxia buxifolia</i>	70	1	
<i>Dodonaea stenozyga</i>	90	15	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	100	1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	200	15	
<i>Eucalyptus campaspe</i>	200	1	
<i>Maireana georgei</i>	15	0.1	
<i>Olearia muelleri</i>	20	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	35	5	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	110	10	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q06
Location MGA 50 324605 mE 6571453 mN

Described by: BD,SW
Date: 15/11/2021
Type: QUADRAT

Landform: Low rise
Rock Type: Ironstone, Quartz



Vegetation: *Eucalyptus clelandiorum* and *Eucalyptus ?ravida* low open woodland over *Eremophila oppositifolia* subsp. *angustifolia* and *Myoporum platycarpum* subsp. *platycarpum* mid open shrubland over *Scaevola spinescens*, *Dodonaea lobulata* and *Phebalium laevigatum* low open shrubland

Condition: Good **Disturbance Type:** Litter, Historical Clearing

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	120	0.1	
<i>Acacia tetragonophylla</i>	150	0.1	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	120	0.1	
<i>Dodonaea lobulata</i>	100	1	
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	140	8	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	30	0.1	
<i>Eucalyptus ?ravida</i>	450	2	
<i>Eucalyptus clelandiorum</i>	700	5	
<i>Halgania andromedifolia</i>	100	0.1	
<i>Maireana georgei</i>	15	0.1	
<i>Myoporum platycarpum</i> subsp. <i>platycarpum</i>	190	4	
<i>Olearia muelleri</i>	30	0.5	
<i>Phebalium laevigatum</i>	80	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	30	0.1	
<i>Scaevola spinescens</i>	90	20	
<i>Solanum lasiophyllum</i>	20	0.1	
<i>Triodia desertorum</i>	30	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q07
Location MGA 50 327549 mE 6571711 mN

Described by: JW
Date: 15/11/2021
Type: QUADRAT

Landform: Scree slope No photo available
Rock Type: Laterite

Vegetation: *Eremophila interstans* subsp. *interstans* tall open shrubland over *Dodonaea stenozyga*, *Senna artemisioides* subsp. *filifolia* and *Alyxia buxifolia* mid open shrubland over *Maireana georgei* low sparse chenopod shrubland
Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Alyxia buxifolia</i>	110	1	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	25	0.1	
<i>Dodonaea stenozyga</i>	170	5	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	250	15	
<i>Maireana georgei</i>	15	2	
<i>Malvaceae</i> sp.	5	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	190	5	
<i>Solanum cleistogamum</i>	15	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q08
Location MGA 50 324706 mE 6571242 mN

Described by: BD,SW
Date: 15/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Ironstone, Quartz



Vegetation: *Eucalyptus clelandiorum* and *Eucalyptus salmonophloia* mid open woodland over *Eremophila interstans* subsp. *interstans* mid sparse shrubland over *Maireana trichoptera*, *Atriplex ?vesicaria* and *Sclerolaena fusiformis* low sparse chenopod shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	30	1	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	100	0.1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	160	2	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	40	1	
<i>Eucalyptus clelandiorum</i>	1100	2	
<i>Eucalyptus salmonophloia</i>	1100	2	
<i>Exocarpos aphyllus</i>	40	0.1	
<i>Maireana georgei</i>	15	0.1	
<i>Maireana trichoptera</i>	8	2	
<i>Olearia muelleri</i>	35	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	40	0.1	
<i>Scaevola spinescens</i>	80	1	
<i>Sclerolaena diacantha</i>	10	0.5	
<i>Sclerolaena fusiformis</i>	5	1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	100	0.1	
<i>Senna stowardii</i>	60	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q09
Location MGA 50 327372 mE 6571654 mN

Described by: JW
Date: 15/11/2021
Type: QUADRAT

Landform: Slope No photo available
Rock Type: Laterite

Vegetation: *Eremophila oldfieldii* subsp. *angustifolia* tall open shrubland over *Dodonaea stenozyga* and *Acacia acuminata* mid sparse shrubland over *Ptilotus obovatus* var. *obovatus* and *Cheilanthes sieberi* subsp. *sieberi* low sparse herbland
Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	140	2	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	35	0.5	
<i>Dodonaea stenozyga</i>	200	10	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	250	25	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	25	10	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q10
Location MGA 50 324887 mE 6571294 mN

Described by: BD,SW
Date: 15/11/2021
Type: QUADRAT

Landform: Drainage line
Rock Type: Calcrete, Ironstone, Quartz



Vegetation: *Eucalyptus salubris* low woodland over *Eremophila oldfieldii* subsp. *angustifolia*, *Dodonaea lobulata* and *Eremophila glabra* subsp. *glabra* mid open shrubland over *Atriplex ?vesicaria* low sparse chenopod shrubland

Condition: Very Good **Disturbance Type:** Litter

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	40	3	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	150	0.1	
<i>Dodonaea lobulata</i>	130	4	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	150	4	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	210	0.1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	180	11	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	50	0.1	
<i>Eucalyptus salubris</i>	900	20	
<i>Exocarpos aphyllus</i>	150	0.1	
<i>Maireana georgei</i>	30	0.1	
<i>Maireana trichoptera</i>	10	0.1	
<i>Olearia muelleri</i>	35	0.1	
<i>Ptilotus exaltatus</i>	3	0.1	
<i>Scaevola spinescens</i>	100	0.1	
<i>Sclerolaena obliquicuspis</i>	10	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	150	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q11
Location MGA 50 326763 mE 6571675 mN

Described by: JW
Date: 15/11/2021
Type: QUADRAT

Landform: Drainage line
Rock Type: Granite, Laterite, Quartz



Vegetation: *Eucalyptus oleosa* subsp. *oleosa* low woodland over *Eremophila interstans* subsp. *interstans* mid sparse shrubland over *Dodonaea stenozyga*, *Acacia jennerae* and *Eremophila glabra* subsp. *glabra* low sparse shrubland
Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia jennerae</i>	35	1	
<i>Dodonaea stenozyga</i>	38	5	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	45	1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	200	1	
<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>	500	15	
<i>Maireana georgei</i>	20	0.1	
<i>Olearia muelleri</i>	40	1	
<i>Ptilotus exaltatus</i>	15	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	20	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q12
Location MGA 50 325065 mE 6571260 mN

Described by: BD,SW
Date: 15/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Ironstone, Laterite, Quartz



Vegetation: *Eucalyptus salmonophloia* mid woodland over *Senna artemisioides* subsp. *filifolia* mid isolated shrubs

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eremophila interstans</i> subsp. <i>interstans</i>	400	0.1	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	25	0.1	
<i>Eucalyptus salmonophloia</i>	1500	25	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	150	0.5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q13
Location MGA 50 327631 mE 6571898 mN

Described by: JW
Date: 16/11/2021
Type: QUADRAT

Landform: Ridge crest
Rock Type: Laterite



Vegetation: *Eucalyptus oldfieldii* low open woodland over *Dodonaea stenozyga* mid sparse shrubland over *Atriplex vesicaria*, *Senna artemisioides* subsp. *filifolia* and *Maireana pentatropis* low shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex vesicaria</i>	35	15	
<i>Dodonaea stenozyga</i>	110	8	
<i>Eucalyptus oldfieldii</i>	300	5	
<i>Maireana pentatropis</i>	5	5	
<i>Olearia muelleri</i>	20	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	15	6	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	45	15	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q14
Location MGA 50 325050 mE 6570941 mN

Described by: BD,SW
Date: 16/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Ironstone



Vegetation: *Acacia collegialis* and *Eremophila oldfieldii* subsp. *angustifolia* tall sparse shrubland over *Dodonaea lobulata* and *Eremophila alternifolia* mid sparse shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia collegialis</i>	400	6	
<i>Acacia tetragonophylla</i>	100	0.1	
<i>Chenopodium curvispicatum</i>	10	0.1	
<i>Dodonaea lobulata</i>	180	5	
<i>Eremophila alternifolia</i>	190	4	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	250	1	
<i>Maireana georgei</i>	20	0.1	
<i>Maireana trichoptera</i>	8	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	25	0.1	
<i>Rhagodia drummondii</i>	5	0.1	
<i>Sclerolaena diacantha</i>	5	0.1	
<i>Sclerolaena fusiformis</i>	10	0.1	
<i>Sida ?petrophila</i>	15	0.1	
<i>Solanum lasiophyllum</i>	10	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q15
Location MGA 50 327026 mE 6571767 mN

Described by: JW
Date: 16/11/2021
Type: QUADRAT

Landform: Lower slope
Rock Type: Laterite



Vegetation: *Eucalyptus clelandiorum* and *Eucalyptus oldfieldii* low open woodland over *Atriplex ?vesicaria* and *Eremophila interstans* subsp. *interstans* mid shrubland over *Dodonaea stenozyga*, *Olearia muelleri* and *Maireana pentatropis* low open shrubland

Condition: Good **Disturbance Type:** Fauna tracks/scats, Historical Clearing

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	120	35	
<i>Dodonaea stenozyga</i>	90	6	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	190	20	
<i>Eucalyptus clelandiorum</i>	400	2	
<i>Eucalyptus oldfieldii</i>	60	2	
<i>Maireana georgei</i>	5	0.1	
<i>Maireana pentatropis</i>	20	1	
<i>Olearia muelleri</i>	20	5	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	15	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q16
Location MGA 50 324948 mE 6570710 mN

Described by: BD,SW
Date: 16/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Ironstone



Vegetation: *Eucalyptus griffithsii* mid woodland over *Eremophila oldfieldii* subsp. *angustifolia* tall sparse shrubland over *Eremophila interstans* subsp. *interstans* mid sparse shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	30	0.1	
<i>Dodonaea lobulata</i>	80	1	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	40	0.5	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	180	3	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	500	2	
<i>Eucalyptus griffithsii</i>	1100	25	
<i>Maireana trichoptera</i>	20	0.1	
<i>Olearia muelleri</i>	40	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	25	0.1	
<i>Rhagodia drummondii</i>	20	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	40	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q17
Location MGA 50 327349 mE 6571149 mN

Described by: JW
Date: 16/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, Sandstone, Shale



Vegetation: *Atriplex vesicaria*, *Maireana georgei* and *Maireana pentatropis* low chenopod shrubland over **Asphodelus fistulosus* low sparse herblan

Condition: Poor **Disturbance Type:** Vehicle tracks, Fauna tracks/scats, Historical Clearing, Infrastructure

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>*Asphodelus fistulosus</i>	35	10	
<i>Atriplex vesicaria</i>	100	26	
<i>Maireana georgei</i>	10	15	
<i>Maireana pentatropis</i>	20	10	
<i>*Salvia verbenaca</i>	10	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q18
Location MGA 50 324668 mE 6570076 mN

Described by: BD,SW
Date: 16/11/2021
Type: QUADRAT

Landform: Hilltop
Rock Type: Calcrete, Ironstone



Vegetation: *Acacia collegialis* and *Eremophila oldfieldii* subsp. *angustifolia* tall sparse shrubland over *Dodonaea lobulata* mid sparse shrubland over *Senna artemisioides* subsp. *filifolia* low sparse shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia collegialis</i>	350	5	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	140	0.1	
<i>Dodonaea lobulata</i>	140	5	
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	40	0.1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	350	5	
<i>Maireana pentatropis</i>	15	0.1	
<i>Maireana trichoptera</i>	15	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	25	1	
<i>Santalum acuminatum</i>	250	0.1	
<i>Scaevola spinescens</i>	130	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	15	2	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q19
Location MGA 50 328122 **mE** 6571915 **mN**

Described by: JW
Date: 16/11/2021
Type: QUADRAT

Landform: Plain No photo available
Rock Type: Laterite

Vegetation: *Eucalyptus salmonophloia* low woodland over *Eremophila interstans* subsp. *interstans* mid sparse shrubland over *Atriplex vesicaria* and *Atriplex* sp. low open chenopod shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex</i> sp.	35	5	
<i>Atriplex vesicaria</i>	100	20	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	120	5	
<i>Eucalyptus salmonophloia</i>	1000	15	
<i>Maireana georgei</i>	15	0.1	
<i>Salsola australis</i>	5	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q20
Location MGA 50 324559 mE 6569671 mN

Described by: BD,SW
Date: 16/11/2021
Type: QUADRAT

Landform: Upper slope
Rock Type: Ironstone



Vegetation: *Eucalyptus salmonophloia* and *Eucalyptus salubris* mid open woodland over *Eremophila interstans* subsp. *interstans* and *Eremophila oldfieldii* subsp. *angustifolia* tall sparse shrubland over *Senna artemisioides* subsp. *filifolia* and *Atriplex nummularia* subsp. *spathulata* mid sparse shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	25	0.1	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	120	0.5	
<i>Dodonaea lobulata</i>	60	0.1	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	90	0.1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	350	3	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	250	1	
<i>Eucalyptus salmonophloia</i>	1200	3	
<i>Eucalyptus salubris</i>	1100	2	
<i>Maireana ?georgei</i>	15	0.1	
<i>Maireana pentatropis</i>	25	0.1	
<i>Maireana sedifolia</i>	100	0.5	
<i>Maireana trichoptera</i>	15	0.1	
<i>Olearia muelleri</i>	30	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	15	0.1	
<i>Scaevola spinescens</i>	30	0.1	
<i>Sclerolaena fusiformis</i>	15	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	130	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q21
Location MGA 50 327523 mE 6573455 mN

Described by: JW
Date: 16/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite



Vegetation: *Eucalyptus griffithsii* low open woodland over *Eremophila oldfieldii* subsp. *angustifolia* and *Eremophila interstans* subsp. *interstans* tall open shrubland over *Senna artemisioides* subsp. *filifolia* and *Dodonaea stenozyga* mid sparse shrubland

Condition: Good **Disturbance Type:** Vehicle tracks, Litter

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Dodonaea stenozyga</i>	120	2	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	220	5	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	290	10	
<i>Eucalyptus griffithsii</i>	500	1	
<i>Maireana</i> ? <i>marginata</i>	30	2	
<i>Maireana georgei</i>	15	1	
<i>Olearia muelleri</i>	25	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	30	10	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	120	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q22
Location MGA 50 324398 mE 6569324 mN

Described by: BD,SW
Date: 16/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Ironstone



Vegetation: *Acacia collegialis* and *Eremophila oldfieldii* subsp. *angustifolia* tall open shrubland over *Ptilotus obovatus* var. *obovatus* and **Salvia verbenaca* low herbland

Condition: Good **Disturbance Type:** Grazing,Litter,Fauna tracks/scats,Historical Clearing

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia collegialis</i>	400	8	
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	40	0.1	
<i>Enneapogon caerulescens</i>	4	0.1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	350	4	
<i>Hibiscus sturtii</i> var. <i>grandiflorus</i>	15	0.1	
<i>Maireana trichoptera</i>	20	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	35	35	
<i>*Salvia verbenaca</i>	30	0.5	
<i>Sclerolaena fusiformis</i>	15	0.1	
<i>Sida petrophila</i>	30	4	
<i>Solanum cleistogamum</i>	10	0.1	
<i>Solanum lasiophyllum</i>	25	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q23
Location MGA 50 327250 mE 6573660 mN

Described by: JW
Date: 16/11/2021
Type: QUADRAT

Landform: Mud slope scree
Rock Type: Laterite



Vegetation: *Eucalyptus torquata* low open woodland over *Eremophila oldfieldii* subsp. *angustifolia* and *Acacia tetragonophylla* tall open shrubland over *Dodonaea stenozyga*, *Senna artemisioides* subsp. *filifolia* and *Alyxia buxifolia* mid shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia tetragonophylla</i>	250	1	
<i>Alyxia buxifolia</i>	130	1	
<i>Dodonaea stenozyga</i>	190	45	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	250	15	
<i>Eucalyptus torquata</i>	900	5	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	170	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q24
Location MGA 50 324535 mE 6569030 mN

Described by: BD,SW
Date: 16/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Calcrete, Ironstone



Vegetation: *Eucalyptus salmonophloia* mid open woodland over *Atriplex nummularia* subsp. *spathulata* low sparse chenopod shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	15	0.1	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	90	5	
<i>Eucalyptus salmonophloia</i>	1200	6	
<i>Maireana pentatropis</i>	20	0.1	
<i>Maireana trichoptera</i>	10	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	50	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q25
Location MGA 50 326779 mE 6572716 mN

Described by: JW
Date: 16/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, Limestone, Quartz



Vegetation: *Eucalyptus griffithsii* low open woodland over *Eremophila glabra* subsp. *glabra*, *Atriplex vesicaria* and *Maireana georgei* low shrubland over *Osteocarpum salsuginosum* low sparse herbland

Condition: Poor, Very Poor **Disturbance Type:** Weeds, Vehicle tracks, Litter, Historical Clearing, Infrastructure

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?holocarpa</i>	35	5	
<i>Atriplex vesicaria</i>	38	15	
<i>Enneapogon caerulescens</i>	5	0.1	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	35	30	
<i>Eucalyptus griffithsii</i>	400	2	
<i>Maireana georgei</i>	20	15	
<i>Maireana pentatropis</i>	25	1	
<i>Maireana tomentosa</i>	20	5	
<i>Osteocarpum salsuginosum</i>	15	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q26
Location MGA 50 325151 mE 6568826 mN

Described by: BD,SW
Date: 16/11/2021
Type: QUADRAT

Landform: Undulating plain
Rock Type: Ironstone



Vegetation: *Eucalyptus salmonophloia* and *Eucalyptus salubris* mid woodland over *Senna artemisioides* subsp. *filifolia* mid isolated shrubs over *Atriplex ?vesicaria* low isolated chenopod shrubs

Condition: Very Good **Disturbance Type:** Historical Clearing

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	40	0.5	
<i>Dodonaea lobulata</i>	50	0.1	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	40	0.1	
<i>Eucalyptus salmonophloia</i>	1200	15	
<i>Eucalyptus salubris</i>	1100	5	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	120	0.5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q27
Location MGA 50 326933 mE 6578601 mN

Described by: JW
Date: 17/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, Quartz



Vegetation: *Eucalyptus griffithsii* low open woodland over *Eremophila oldfieldii* subsp. *angustifolia* mid open shrubland over *Dodonaea stenozyga*, *Eremophila glabra* subsp. *glabra* and *Santalum spicatum* mid open shrubland over *Atriplex vesicaria*, *Exocarpos aphyllus* and *Pittosporum angustifolium* low sparse shrubland

Condition: Good **Disturbance Type:** Vehicle tracks

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	42	0.5	
<i>Atriplex vesicaria</i>	60	5	
<i>Dodonaea stenozyga</i>	200	20	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	110	1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	250	20	
<i>Eucalyptus griffithsii</i>	500	1	
<i>Exocarpos aphyllus</i>	100	1	
<i>Lycium australe</i>	40	0.5	
<i>Maireana georgei</i>	20	0.5	
<i>Pittosporum angustifolium</i>	60	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	30	2	
<i>Santalum spicatum</i>	170	1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	40	0.5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q28
Location MGA 50 325835 mE 6569465 mN

Described by: BD,SW
Date: 16/11/2021
Type: QUADRAT

Landform: Drainage line
Rock Type: Ironstone



Vegetation: *Eucalyptus salubris* mid open forest over *Eremophila interstans* subsp. *interstans* tall sparse shrubland over *Atriplex nummularia* subsp. *spathulata* mid sparse shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	100	2	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	120	2	
<i>Dodonaea lobulata</i>	200	0.1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	300	4	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	50	0.1	
<i>Eucalyptus salubris</i>	1100	35	
<i>Maireana trichoptera</i>	50	0.1	
<i>Olearia muelleri</i>	90	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	40	0.1	
<i>Scaevola spinescens</i>	80	0.1	
<i>Sclerolaena diacantha</i>	10	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q29
Location MGA 50 326944 **mE** 6579386 **mN**

Described by: JW
Date: 17/11/2021
Type: QUADRAT

Landform: Plain No photo available
Rock Type: Dolerite, Laterite, Quartz

Vegetation: *Eucalyptus griffithsii* low open woodland over *Acacia hemiteles*, *Dodonaea stenozyga* and *Santalum spicatum* mid shrubland over *Atriplex vesicaria*, *Senna artemisioides* subsp. *filifolia* and *Olearia muelleri* low open shrubland
Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia hemiteles</i>	140	15	
<i>Alyxia buxifolia</i>	35	1	
<i>Atriplex vesicaria</i>	70	5	
<i>Dodonaea stenozyga</i>	120	15	
<i>Eucalyptus griffithsii</i>	700	10	
<i>Olearia muelleri</i>	15	2	
<i>Santalum spicatum</i>	200	5	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	45	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q31
Location MGA 50 326956 mE 6579776 mN

Described by: JW
Date: 17/11/2021
Type: QUADRAT

Landform: Plain No photo available
Rock Type: Laterite

Vegetation: *Eucalyptus griffithsii* low open woodland over *Eremophila interstans* subsp. *interstans* tall shrubland over *Eremophila oppositifolia* subsp. *angustifolia*, *Exocarpos aphyllus* and *Eremophila glabra* subsp. *glabra* mid sparse shrubland
Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Abutilon cryptopetalum</i>	38	0.1	
<i>Acacia erinacea</i>	40	0.5	
<i>Acacia jennerae</i>	50	5	
<i>Alyxia buxifolia</i>	40	15	
<i>Dodonaea stenozyga</i>	35	1	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	110	0.5	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	220	45	
<i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i>	200	1	
<i>Eremophila scoparia</i>	48	0.1	
<i>Eucalyptus griffithsii</i>	500	5	
<i>Exocarpos aphyllus</i>	110	1	
<i>Maireana trichoptera</i>	10	0.1	
<i>Olearia muelleri</i>	20	0.5	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	35	0.5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q32
Location MGA 50 325641 mE 6569459 mN

Described by: BD,SW
Date: 17/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Laterite, Quartz



Vegetation: *Eucalyptus websteriana* subsp. *websteriana* low open woodland over *Acacia collegialis* tall open shrubland over *Dodonaea lobulata* low open shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia collegialis</i>	450	11	
<i>Austrostipa trichophylla</i>	5	0.1	
<i>Cheilanthes lasiophylla</i>	5	0.1	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	8	0.1	
<i>Chrysocephalum puteale</i>	10	0.1	
<i>Dodonaea lobulata</i>	100	13	
<i>Enneapogon caerulescens</i>	3	0.1	
<i>Eremophila alternifolia</i>	30	0.1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	20	0.1	
<i>Eucalyptus websteriana</i> subsp. <i>websteriana</i>	300	1	
* <i>Euphorbia drummondii</i>	5	0.1	
<i>Goodenia havilandii</i>	10	0.1	
<i>Maireana trichoptera</i>	10	0.1	
<i>Olearia muelleri</i>	35	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	20	1	
<i>Scaevola spinescens</i>	50	0.1	
<i>Sida</i> ? <i>petrophila</i>	10	0.1	
<i>Solanum lasiophyllum</i>	10	0.1	
<i>Waitzia acuminata</i> var. <i>acuminata</i>	10	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q33
Location MGA 50 324395 mE 6579552 mN

Described by: JW
Date: 17/11/2021
Type: QUADRAT

Landform: Ridge
Rock Type: Laterite



Vegetation: *Acacia collegialis* tall open shrubland over *Eremophila oldfieldii* subsp. *angustifolia* mid sparse shrubland over *Dodonaea stenozyga* and *Solanum lasiophyllum* low open shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia collegialis</i>	400	21	
<i>Aristida contorta</i>	5	0.1	
<i>Dodonaea stenozyga</i>	50	20	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	120	10	
<i>Goodenia havilandii</i>	15	0.1	
<i>Solanum lasiophyllum</i>	15	0.5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q34
Location MGA 50 325544 mE 6569645 mN

Described by: BD,SW
Date: 17/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Laterite



Vegetation: *Eucalyptus oleosa* subsp. *oleosa* low isolated trees over *Acacia acuminata* and *Acacia collegialis* tall open shrubland over *Dodonaea lobulata* and *Eremophila georgei* mid open shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	450	10	
<i>Acacia collegialis</i>	450	3	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	5	0.1	
<i>Dodonaea lobulata</i>	120	11	
<i>Eremophila georgei</i>	120	1	
<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>	500	0.5	
<i>Leichhardtia australis</i>	300	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	15	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	130	0.1	
<i>Solanum lasiophyllum</i>	3	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q35
Location MGA 50 324374 mE 6579775 mN

Described by: JW
Date: 17/11/2021
Type: QUADRAT

Landform: Mld slope
Rock Type: Laterite, Quartz



Vegetation: *Acacia acuminata* tall open shrubland over *Maireana triptera*, *Senna artemisioides* subsp. *filifolia* and *Dodonaea stenozyga* low open shrubland over *Ptilotus obovatus* var. *obovatus* and *Ptilotus polystachyus* low sparse herbland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	400	28	
<i>Cheilanthes lasiophylla</i>	5	0.1	
<i>Dodonaea stenozyga</i>	45	3	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	45	2	
<i>Maireana triptera</i>	25	5	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	15	1	
<i>Ptilotus polystachyus</i>	35	1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	46	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q36
Location MGA 50 324947 mE 6578526 mN

Described by: BD,SW
Date: 17/11/2021
Type: QUADRAT

Landform: Upper slope
Rock Type: Granite, Laterite



Vegetation: *Eucalyptus clelandiorum* and *Eucalyptus salmonophloia* mid open woodland over *Eremophila interstans* subsp. *interstans* tall sparse shrubland over *Eremophila parvifolia* subsp. *auricampi* and *Atriplex nummularia* subsp. *spathulata* low sparse shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	40	0.1	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	80	0.5	
<i>Cratystylis conocephala</i>	40	0.1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	250	3	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	100	1	
<i>Eucalyptus clelandiorum</i>	1100	3	
<i>Eucalyptus salmonophloia</i>	1100	2	
<i>Exocarpos aphyllus</i>	100	0.1	
<i>Maireana trichoptera</i>	10	0.1	
<i>Roepera ovata</i>	5	0.1	
<i>Scaevola spinescens</i>	50	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	160	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q37
Location MGA 50 323658 mE 6579927 mN

Described by: JW
Date: 17/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, Quartz



Vegetation: *Eucalyptus salmonophloia* and *Eucalyptus oleosa* subsp. *oleosa* mid woodland over *Eremophila interstans* subsp. *interstans* and *Atriplex ?vesicaria* mid shrubland over *Senna artemisioides* subsp. *filifolia*, *Chenopodium curvispicatum* and *Olearia muelleri* low open shrubland
Condition: Good **Disturbance Type:** Vehicle tracks

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	140	15	
<i>Chenopodium curvispicatum</i>	45	2	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	200	25	
<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>	1300	2	
<i>Eucalyptus salmonophloia</i>	1500	15	
<i>Maireana pentatropis</i>	15	0.1	
<i>Maireana sedifolia</i>	45	1	
<i>Olearia muelleri</i>	35	2	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	35	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q38
Location MGA 50 324822 mE 6578130 mN

Described by: BD,SW
Date: 17/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Laterite



Vegetation: *Acacia collegialis* and *Eremophila oldfieldii* subsp. *angustifolia* tall open shrubland over *Dodonaea lobulata* and *Eremophila georgei* mid sparse shrubland over *Ptilotus obovatus* var. *obovatus* low isolated herbs

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia collegialis</i>	450	20	
<i>Aristida contorta</i>	5	0.1	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	5	0.1	
<i>Dodonaea lobulata</i>	100	7	
<i>Eremophila georgei</i>	130	0.5	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	230	2	
<i>Goodenia havilandii</i>	15	0.1	
<i>Leichhardtia australis</i>	30	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	30	0.5	
<i>Santalum acuminatum</i>	300	0.1	
<i>Scaevola spinescens</i>	45	0.1	
<i>Sida ?petrophila</i>	10	0.5	
<i>Solanum lasiophyllum</i>	10	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q39
Location MGA 50 323564 mE 6579153 mN

Described by: JW
Date: 17/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Ironstone, Laterite, Quartz



Vegetation: *Eucalyptus celastroides* low woodland over *Eremophila interstans* subsp. *interstans* mid sparse shrubland over *Maireana pentatropis*, *Atriplex vesicaria* and *Chenopodium curvispicatum* low sparse chenopod shrubland
Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex vesicaria</i>	100	2	
<i>Chenopodium curvispicatum</i>	35	1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	120	10	
<i>Eucalyptus celastroides</i>	600	20	
<i>Maireana pentatropis</i>	25	5	
<i>Olearia muelleri</i>	35	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q40
Location MGA 50 324436 mE 6578315 mN

Described by: BD,SW
Date: 17/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Laterite, Quartz



Vegetation: *Acacia collegialis* tall open shrubland over *Dodonaea lobulata* and *Eremophila georgei* mid open shrubland over *Ptilotus obovatus* var. *obovatus* low isolated herbs

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia collegialis</i>	450	15	
<i>Acacia tetragonophylla</i>	210	0.1	
<i>Aristida contorta</i>	10	0.1	
<i>Cheilanthes lasiophylla</i>	5	0.1	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	8	0.1	
<i>Dodonaea lobulata</i>	170	10	
<i>Eremophila georgei</i>	140	3	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	50	0.1	
<i>Goodenia havilandii</i>	15	0.1	
<i>Leichhardtia australis</i>	10	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	15	0.5	
<i>Santalum acuminatum</i>	270	0.1	
<i>Scaevola spinescens</i>	120	0.1	
<i>Solanum lasiophyllum</i>	5	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q41
Location MGA 50 323554 mE 6579206 mN

Described by: JW
Date: 18/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Laterite, Quartz



Vegetation: *Eucalyptus griffithsii* low open woodland over *Eremophila interstans* subsp. *interstans*, *Eremophila glabra* subsp. *glabra* and *Acacia hemiteles* mid open shrubland over *Tecticornia halocnemoides*, *Atriplex* sp. and *Maireana trichoptera* low chenopod shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia hemiteles</i>	160	3	
<i>Atriplex</i> sp.	25	5	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	110	5	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	140	15	
<i>Eucalyptus griffithsii</i>	1000	5	
<i>Exocarpos aphyllus</i>	180	1	
<i>Frankenia ?fecunda</i>	5	0.1	
<i>Maireana trichoptera</i>	20	5	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	60	2	
<i>Tecticornia halocnemoides</i>	100	25	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q42
Location MGA 50 323685 mE 6577907 mN

Described by: BD,SW
Date: 17/11/2021
Type: QUADRAT

Landform: Foothlope
Rock Type: Ironstone, Quartz



Vegetation: *Eremophila interstans* subsp. *interstans* mid sparse shrubland over *Tecticornia halocnemoides* low open samphire shrubland

Condition: Good **Disturbance Type:** Vehicle tracks

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	50	2	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	90	1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	180	2	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	30	0.1	
<i>Exocarpos aphyllus</i>	30	0.1	
<i>Frankenia ?fecunda</i>	20	0.1	
<i>Lawrenzia repens</i>	3	0.1	
<i>Maireana trichoptera</i>	10	0.1	
<i>Ptilotus exaltatus</i>	2	0.1	
<i>Rhagodia drummondii</i>	15	0.1	
<i>Roepera ovata</i>	8	0.1	
<i>Sclerolaena fusiformis</i>	5	0.1	
<i>Tecticornia halocnemoides</i>	90	11	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q43
Location MGA 50 323723 mE 6578705 mN

Described by: JW
Date: 18/11/2021
Type: QUADRAT

Landform: Ridge crwat
Rock Type: Ironstone, Laterite, Quartz



Vegetation: *Eucalyptus celastroides* low woodland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eucalyptus celastroides</i>	700	25	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2R44
Location MGA 50 323751 mE 6577898 mN

Described by: BD,SW
Date: 17/11/2021
Type: RELEVÉ

Landform: Cracking clay No photo available
Rock Type: Ironstone, Quartz

Vegetation: *Streptoglossa liatroides* and *Sclerolaena cuneata* low sparse herbland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Goodenia pinnatifida</i>	5	0.1	
<i>Ptilotus exaltatus</i>	25	0.1	
<i>Sclerolaena cuneata</i>	5	0.5	
<i>Streptoglossa liatroides</i>	2	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q45
Location MGA 50 323830 **mE** 6584592 **mN**

Described by: JW
Date: 18/11/2021
Type: QUADRAT

Landform: Plain No photo available
Rock Type: Laterite, Quartz

Vegetation: *Eremophila oldfieldii* subsp. *angustifolia* tall sparse shrubland over *Acacia acuminata* and *Senna artemisioides* subsp. *filifolia* mid sparse shrubland over *Atriplex vesicaria*, *Maireana pentatropis* and *Maireana georgei* low sparse chenopod shrubland
Condition: Poor **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	170	5	
<i>Atriplex vesicaria</i>	45	5	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	220	5	
<i>Maireana georgei</i>	15	0.5	
<i>Maireana pentatropis</i>	15	2	
<i>Ptilotus exaltatus</i>	25	5	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	35	1	
<i>Rhodanthe chlorocephala</i> subsp. <i>rosea</i>	5	0.1	
* <i>Salvia verbenaca</i>	15	0.5	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	140	1	
<i>Solanum lasiophyllum</i>	20	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q46
Location MGA 50 324398 mE 6577581 mN

Described by: BD,SW
Date: 17/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Ironstone, Quartz



Vegetation: *Eucalyptus salmonophloia* mid open woodland over *Eremophila interstans* subsp. *interstans* tall sparse shrubland over *Atriplex nummularia* subsp. *spathulata* mid sparse shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	50	2	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	160	6	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	250	1	
<i>Eucalyptus salmonophloia</i>	1300	7	
<i>Maireana trichoptera</i>	15	0.1	
<i>Scaevola spinescens</i>	30	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q48
Location MGA 50 324472 mE 6578839 mN

Described by: BD,SW
Date: 17/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Granite, Ironstone, Quartz



Vegetation: *Eucalyptus salubris* low open woodland over *Eremophila oldfieldii* subsp. *angustifolia* and *Acacia collegialis* tall sparse shrubland over *Dodonaea lobulata* and *Senna artemisioides* subsp. *filifolia* mid sparse shrubland
Condition: Good **Disturbance Type:** Litter, Historical Clearing

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia collegialis</i>	300	2	
<i>Aristida contorta</i>	5	0.1	
<i>Dodonaea lobulata</i>	130	4	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	250	4	
<i>Eucalyptus salubris</i>	600	1	
<i>Maireana trichoptera</i>	10	0.1	
<i>Olearia muelleri</i>	40	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	15	0.1	
<i>Scaevola spinescens</i>	50	1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	150	3	
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	150	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q50
Location MGA 50 325838 mE 6579783 mN

Described by: BD,SW
Date: 18/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Ironstone, Quartz



Vegetation: *Acacia hemiteles*, *Casuarina pauper* and *Eremophila oldfieldii* subsp. *angustifolia* tall sparse shrubland over *Senna artemisioides* subsp. *filifolia*, *Acacia jennerae* and *Eremophila deserti* mid sparse shrubland over *Scaevola spinescens*, *Chenopodium curvispicatum* and *Maireana trichoptera* low sparse shrubland

Condition: Good **Disturbance Type:** Vehicle tracks, Fauna tracks/scats, Historical Clearing

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia hemiteles</i>	230	4	
<i>Acacia jennerae</i>	130	2	
<i>Aristida contorta</i>	10	0.1	
<i>Atriplex ?vesicaria</i>	40	0.1	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	330	0.1	
<i>Austrostipa platychaeta</i>	150	0.1	
* <i>Carrichtera annua</i>	15	0.1	
<i>Casuarina pauper</i>	300	1	
<i>Chenopodium curvispicatum</i>	20	0.5	
<i>Eremophila deserti</i>	170	1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	220	1	
<i>Leichhardtia australis</i>	100	0.1	
<i>Maireana sedifolia</i>	160	2	
<i>Maireana tomentosa</i>	5	0.1	
<i>Maireana trichoptera</i>	30	0.5	
<i>Pimelea microcephala</i> subsp. <i>microcephala</i>	190	1	
<i>Pittosporum angustifolium</i>	200	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	35	0.1	
<i>Salsola australis</i>	4	0.1	
* <i>Salvia verbenaca</i>	25	0.1	
<i>Scaevola spinescens</i>	100	3	
<i>Sclerolaena fusiformis</i>	10	0.5	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	170	3	
<i>Solanum nummularium</i>	35	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q52
Location MGA 50 325464 mE 6579380 mN

Described by: BD,SW
Date: 18/11/2021
Type: QUADRAT

Landform: Claypan
Rock Type: Calcrete, Ironstone, Quartz



Vegetation: *Dodonaea lobulata* and *Eremophila interstans* subsp. *interstans* mid sparse shrubland over *Maireana trichoptera*, *Atriplex vesicaria* and *Maireana georgei* low sparse chenopod shrubland over *Salvia verbenaca*, *Ptilotus exaltatus* and *Sclerolaena fusiformis* low herbland

Condition: Good **Disturbance Type:** Weeds, Vehicle tracks

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex vesicaria</i>	50	1	
<i>Calandrinia baccata</i>	5	0.1	
* <i>Carrichtera annua</i>	15	1	
* <i>Centaurea melitensis</i>	25	0.1	
<i>Chenopodium curvispicatum</i>	30	0.1	
<i>Dodonaea lobulata</i>	150	4	
<i>Dysphania melanocarpa</i> forma <i>leucocarpa</i>	10	0.1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	180	1	
<i>Lawrenciella repens</i>	5	1	
<i>Maireana georgei</i>	20	1	
<i>Maireana trichoptera</i>	40	3	
<i>Monachather paradoxus</i>	5	0.1	
* <i>Oligocarpus calendulaceus</i>	5	0.1	
<i>Ptilotus exaltatus</i>	35	12	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	20	0.1	
* <i>Salvia verbenaca</i>	20	15	
<i>Sclerolaena fusiformis</i>	8	5	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	150	0.1	
<i>Solanum lasiophyllum</i>	10	0.1	
<i>Streptoglossa liatroides</i>	5	3	
<i>Vittadinia dissecta</i> var. <i>hirta</i>	30	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2Q54
Location MGA 50 324779 mE 6583442 mN

Described by: BD,SW
Date: 18/11/2021
Type: QUADRAT

Landform: Undulating plain
Rock Type: Ironstone, Laterite



Vegetation: *Eucalyptus salmonophloia* low open woodland over *Eremophila oldfieldii* subsp. *angustifolia* tall isolated shrubs over *Senna artemisioides* subsp. *filifolia*, *Eremophila interstans* subsp. *interstans* and *Dodonaea lobulata* mid open shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia tetragonophylla</i>	170	0.1	
<i>Aristida contorta</i>	15	0.1	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	120	0.1	
<i>Dodonaea lobulata</i>	100	2	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	160	1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	160	3	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	250	0.5	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	130	1	
<i>Eucalyptus salmonophloia</i>	900	5	
<i>Leichhardtia australis</i>	150	0.1	
<i>Maireana trichoptera</i>	15	0.1	
<i>Olearia muelleri</i>	30	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	30	0.1	
<i>Roepera ovata</i>	5	0.1	
<i>Scaevola spinescens</i>	50	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	140	8	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2R05
Location MGA 50 327540 **mE** 6571802 **mN**

Described by: JW
Date: 16/11/2021
Type: RELEVE

Landform: Minor creek line No photo available
Rock Type: Laterite

Vegetation: *Eucalyptus torquata* low woodland over *Dodonaea stenozyga* mid sparse shrubland over *Ptilotus obovatus* var. *obovatus* and *Haloragis trigonocarpa* low sparse herbland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Dodonaea stenozyga</i>	110	5	
<i>Eucalyptus torquata</i>	400	20	
<i>Haloragis trigonocarpa</i>	40	2	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	25	6	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	48	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2R06
Location MGA 50 327365 mE 6572989 mN

Described by: JW
Date: 16/11/2021
Type: RELEVE

Landform: Lake
Rock Type: N/A



Vegetation: **Schinus molle* var. *areira* low woodland over *Aristida contorta* low grassland over **Heliotropium europaeum*, *Heliotropium curassavicum* and **Sonchus asper* low herbland

Condition: Degraded **Disturbance Type:** Weeds, Grazing, Vehicle tracks, Litter, Fauna tracks/scats

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Aristida contorta</i>	30	70	
<i>Heliotropium curassavicum</i>	18	1	
* <i>Heliotropium europaeum</i>	2	40	
* <i>Schinus molle</i> var. <i>areira</i>	300	15	
* <i>Sonchus asper</i>	70	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2R07
Location MGA 50 327376 mE 6570901 mN

Described by: JW
Date: 16/11/2021
Type: RELEVÉ

Landform: Mld slope
Rock Type: Laterite



Vegetation: *Eucalyptus oleosa* subsp. *oleosa* low woodland over *Atriplex vesicaria* low sparse chenopod shrubland over *Heliotropium curassavicum* low sparse herbland

Condition: Good **Disturbance Type:** Vehicle tracks

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex vesicaria</i>	60	10	
<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>	700	15	
<i>Heliotropium curassavicum</i>	40	10	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2R09
Location MGA 50 327166 mE 6574087 mN

Described by: JW
Date: 16/11/2021
Type: RELEVÉ

Landform: Plain
Rock Type: Laterite



Vegetation: *Eucalyptus torquata* and *Eucalyptus griffithsii* low woodland over *Eremophila oldfieldii* subsp. *angustifolia* and *Santalum acuminatum* tall open shrubland over *Dodonaea stenozyga*, *Senna artemisioides* subsp. *filifolia* and *Alyxia buxifolia* low shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Alyxia buxifolia</i>	50	5	
<i>Dodonaea stenozyga</i>	80	25	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	300	25	
<i>Eucalyptus griffithsii</i>	800	2	
<i>Eucalyptus torquata</i>	1000	15	
<i>Santalum acuminatum</i>	220	2	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	90	18	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2R11
Location MGA 50 325721 mE 6569452 mN

Described by: BD,SW
Date: 16/11/2021
Type: RELEVÉ

Landform: Drainage line
Rock Type: Ironstone



Vegetation: *Eucalyptus salmonophloia* mid woodland over *Eremophila interstans* subsp. *interstans* and *Acacia collegialis* tall open shrubland over *Senna artemisioides* subsp. *filifolia* and *Dodonaea lobulata* mid open shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	250	0.1	
<i>Acacia collegialis</i>	300	1	
<i>Dodonaea lobulata</i>	120	2	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	250	20	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	250	0.1	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	40	0.1	
<i>Eucalyptus salmonophloia</i>	1200	20	
<i>Olearia muelleri</i>	40	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	40	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	150	15	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2R13
Location MGA 50 324764 **mE** 6579229 **mN**

Described by: BD,SW
Date: 17/11/2021
Type: RELEVÉ

Landform: Plain No photo available
Rock Type: Calcrete, Laterite

Vegetation: *Maireana georgei* mid sparse chenopod shrubland over *Atriplex nummularia* subsp. *spathulata*, *Maireana tomentosa* and *Atriplex ?vesicaria* low sparse chenopod shrubland over **Centaurea melitensis* and *Ptilotus obovatus* var. *obovatus* low open hermland

Condition: Very Poor **Disturbance Type:** Weeds, Vehicle tracks, Litter, Historical Clearing, Infrastructure

SPECIES LIST

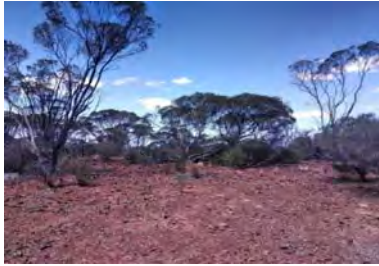
Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	25	0.5	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	20	1	
<i>Atriplex quadrivalvata</i>	15	0.1	
* <i>Centaurea melitensis</i>	40	10	
<i>Hibiscus solanifolius</i>	120	0.1	
<i>Maireana georgei</i>	120	2	
<i>Maireana tomentosa</i>	30	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	35	10	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2R15
Location MGA 50 324420 mE 6579488 mN

Described by: JW
Date: 17/11/2021
Type: RELEVÉ

Landform: Ridge crwt
Rock Type: Laterite, Quartz



Vegetation: *Eucalyptus campaspe* and *Eucalyptus oleosa* subsp. *oleosa* low open forest over *Senna artemisioides* subsp. *filifolia* mid open shrubland over *Olearia muelleri* and *Eremophila glabra* subsp. *glabra* low open shrubland
Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eremophila glabra</i> subsp. <i>glabra</i>	90	1	
<i>Eucalyptus campaspe</i>	1000	25	
<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>	1000	15	
<i>Olearia muelleri</i>	28	10	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	200	18	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C2R17
Location MGA 50 323480 mE 6579368 mN

Described by: JW
Date: 17/11/2021
Type: RELEVÉ

Landform: Plain
Rock Type: Ironstone, Laterite



Vegetation: *Eucalyptus oleosa* subsp. *oleosa* and *Eucalyptus celastroides* low woodland over *Senna artemisioides* subsp. *filifolia* and *Eremophila interstans* subsp. *interstans* low sparse shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Eremophila interstans</i> subsp. <i>interstans</i>	35	0.5	
<i>Eucalyptus celastroides</i>	500	1	
<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i>	700	10	
<i>Olearia muelleri</i>	25	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	60	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C3Q01
Location MGA 50 328133 mE 6574120 mN

Described by: JW
Date: 18/11/2021
Type: QUADRAT

Landform: Plai
Rock Type: Laterite



Vegetation: *Eucalyptus griffithsii* low open woodland over *Eremophila interstans* subsp. *interstans*, *Senna artemisioides* subsp. *filifolia* and *Acacia jennerae* mid open shrubland over *Alyxia buxifolia*, *Westringia rigida* and *Olearia muelleri* low sparse shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	120	1	
<i>Acacia jennerae</i>	140	1	
<i>Alyxia buxifolia</i>	90	2	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	130	5	
<i>Eucalyptus griffithsii</i>	700	5	
<i>Exocarpos aphyllus</i>	150	1	
<i>Maireana tomentosa</i>	10	0.1	
<i>Olearia muelleri</i>	28	0.5	
<i>Ptilotus exaltatus</i>	15	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	120	5	
<i>Westringia rigida</i>	45	2	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C3Q02
Location MGA 50 328109 mE 6573080 mN

Described by: BD,SW
Date: 18/11/2021
Type: QUADRAT

Landform: Upper slope
Rock Type: Granite, Laterite



Vegetation: *Eucalyptus torquata* low open forest over *Dodonaea stenozyga* low sparse shrubland

Condition: Good **Disturbance Type:** Litter

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
? <i>Enchylaena tomentosa</i>	20	0.1	
<i>Atriplex</i> ? <i>vesicaria</i>	40	0.1	
<i>Dodonaea lobulata</i>	90	0.1	
<i>Dodonaea stenozyga</i>	80	3	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	180	0.1	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	60	0.1	
<i>Eucalyptus torquata</i>	800	35	
<i>Exocarpos aphyllus</i>	40	0.1	
<i>Maireana trichoptera</i>	10	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	10	0.1	
<i>Rytidosperma</i> sp.	10	0.1	
<i>Scaevola spinescens</i>	50	0.1	
<i>Solanum nummularium</i>	5	0.1	
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	20	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C3Q02A
Location MGA 50 327861 mE 6573908 mN

Described by: JW
Date: 18/11/2021
Type: QUADRAT

Landform: Hill top
Rock Type: Granite, Ironstone, Laterite



Vegetation: *Eucalyptus torquata* low open woodland over *Dodonaea stenozzyga*, *Acacia acuminata* and *Eremophila oldfieldii* subsp. *angustifolia* mid open shrubland over *Alyxia buxifolia* and *Senna artemisioides* subsp. *filifolia* low sparse shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia acuminata</i>	200	3	
<i>Acacia dissona</i> var. <i>dissona</i>	200	1	
<i>Alyxia buxifolia</i>	50	1	
<i>Dodonaea stenozzyga</i>	110	12	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	150	3	
<i>Eucalyptus torquata</i>	1000	5	
<i>Maireana georgei</i>	5	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	70	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C3Q02B
Location MGA 50 327412 mE 6574092 mN

Described by: JW
Date: 18/11/2021
Type: QUADRAT

Landform: Plain
Rock Type: Ironstone, Laterite



Vegetation: *Eucalyptus griffithsii* low open woodland over *Eremophila oldfieldii* subsp. *angustifolia* mid sparse shrubland over *Atriplex vesicaria*, *Dodonaea stenozyga* and *Acacia dissona* var. *dissona* low open shrubland

Condition: Very Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia dissona</i> var. <i>dissona</i>	25	1	
<i>Acacia hemiteles</i>	100	1	
<i>Atriplex vesicaria</i>	45	15	
<i>Dodonaea stenozyga</i>	25	5	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	25	1	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	150	5	
<i>Eucalyptus griffithsii</i>	700	5	
<i>Maireana pentatropis</i>	15	0.1	
<i>Maireana tomentosa</i>	10	0.5	
<i>Olearia muelleri</i>	25	1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	15	1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C3Q06
Location MGA 50 327864 mE 6573343 mN

Described by: BD,SW
Date: 18/11/2021
Type: QUADRAT

Landform: Mid slope
Rock Type: Calcrete, Laterite



Vegetation: *Eucalyptus torquata* low woodland over *Eremophila interstans* subsp. *interstans* tall sparse shrubland over *Dodonaea stenozyga* mid sparse shrubland

Condition: Good **Disturbance Type:** Vehicle tracks, Fauna tracks/scats

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Atriplex ?vesicaria</i>	50	0.1	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	40	0.1	
<i>Austrostipa platychaeta</i>	80	0.1	
<i>Dodonaea stenozyga</i>	150	1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	370	1	
<i>Eremophila parvifolia</i> subsp. <i>auricampi</i>	30	0.1	
<i>Eucalyptus torquata</i>	800	15	
<i>Maireana sedifolia</i>	120	0.1	
<i>Maireana tomentosa</i>	5	0.1	
<i>Maireana trichoptera</i>	15	0.1	
<i>Olearia muelleri</i>	40	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	60	0.1	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C3R01
Location MGA 50 328239 mE 6574703 mN

Described by: JW
Date: 18/11/2021
Type: RELEVÉ

Landform: Plain
Rock Type: Laterite



Vegetation: *Eucalyptus griffithsii* low open woodland over *Eremophila interstans* subsp. *interstans* tall open shrubland over *Atriplex vesicaria* and *Exocarpos aphyllus* mid open shrubland

Condition: Good **Disturbance Type:** None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Alyxia buxifolia</i>	90	1	
<i>Atriplex vesicaria</i>	110	15	
<i>Dianella revoluta</i> var. <i>divaricata</i>	60	0.5	
<i>Dodonaea stenozyga</i>	15	0.5	
<i>Eremophila glabra</i> subsp. <i>glabra</i>	70	2	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	220	15	
<i>Eucalyptus griffithsii</i>	1000	5	
<i>Exocarpos aphyllus</i>	130	5	
<i>Maireana pentatropis</i>	15	0.5	
<i>Maireana trichoptera</i>	20	0.1	
<i>Olearia muelleri</i>	15	0.5	
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	20	0.1	
<i>Ptilotus exaltatus</i>	35	5	

FLORA SITE SHEET

Project Name 4794 Coolgardie Biological Survey
Site: C3R04
Location MGA 50 328218 mE 6573560 mN

Described by: BD,SW
Date: 18/11/2021
Type: RELEVÉ

Landform: Creek line
Rock Type: Granite, Quartz



Vegetation: *Eucalyptus salmonophloia* mid open forest over *Eremophila interstans* subsp. *interstans* tall sparse shrubland over *Acacia jennerae* mid sparse shrubland

Condition: Good **Disturbance Type:** Weeds, Vehicle tracks

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
? <i>Pimelea</i> sp.	170	0.1	
<i>Acacia jennerae</i>	150	5	
* <i>Asphodelus fistulosus</i>	30	0.1	
<i>Atriplex</i> ? <i>vesicaria</i>	30	2	
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>	50	1	
* <i>Carrichtera annua</i>	20	0.1	
* <i>Centaurea melitensis</i>	20	0.1	
<i>Chloris truncata</i>	30	0.1	
<i>Eragrostis dielsii</i>	3	0.1	
<i>Eremophila interstans</i> subsp. <i>interstans</i>	210	4	
<i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i>	140	0.1	
<i>Eucalyptus salmonophloia</i>	1100	40	
<i>Maireana trichoptera</i>	20	0.1	
<i>Olearia muelleri</i>	40	0.1	
* <i>Oligocarpus calendulaceus</i>	5	0.1	
<i>Pittosporum angustifolium</i>	210	0.1	
<i>Ptilotus exaltatus</i>	30	0.1	
<i>Ptilotus obovatus</i> var. <i>obovatus</i>	25	0.1	
<i>Sclerolaena diacantha</i>	5	0.1	
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	120	0.1	
<i>Vittadinia dissecta</i> var. <i>hirta</i>	15	0.1	

Appendix F

Fauna Habitat Assessments

HABC01

Project:	4794 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	899984.8973525156	Northing	6572010.013459269
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	5 - 25%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Leaf litter,Peeling bark,Rock crevices,Woody debris
Disturbance	Vehicle tracks		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Open forest (50-80%)	<i>Acacia sp.</i>
Mid stratum	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)	<i>dodonaea sp.</i>
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	<i>ptilotus sp.</i>



Fulcrum photo ID 42151a58-0510-40c7-b5b8-39f62d4c1f75,4ffc3568-888a-4c64-9f70-

HABC02

Project:	4795 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	899822.8621105128	Northing	6571973.766455285
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good	Water Source	Absent
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Leaf litter,Peeling bark,Rock crevices,Woody debris
Disturbance	None observed		
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>Acacia sp.</i>
Mid stratum	Mid (1-2 m)	Open mallee shrubland (20-50%)	
Ground stratum	Low (>0.5 m)	Open forbland (20-50%)	<i>ptilotus sp.</i>



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HABC03

Project:	4796 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	899951.8547312932	Northing	6571730.697303254
Landform and soil		Rock	
Landform	Plain	Rock type/s	Quartz
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown	Surface stone size classes present	0 - 5%
Condition			
Quality	Good	Habitat Features	
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Litter,Vehicle tracks	Microhabitats	Hollows - trees,Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Isolated shrubs and/or heath shrubs (<0.25%)	<i>eucalyptus mallee</i>
Ground stratum	Low (>0.5 m)	Open forbland (20-50%)	<i>eremophila sp, salt Bush, acacia sp.</i>



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HABC04

Project:	4797 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	899917.5832372475	Northing	6571665.113011075
Landform and soil		Rock	
Landform	Undulating plain	Rock type/s	Granite,Quartz
Soil type	Sandy loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	5 - 25%
Condition		Habitat Features	
Quality	Good		
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Peeling bark,Rock crevices,Woody debris
Introduced fauna	Cattle		
Vegetation			
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)	<i>Eremophila sp.</i>
Mid stratum	Mid (1-2 m)	Shrubland and/or heathland (50-80%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	<i>ptilotus sp.</i>



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HABC05

Project:	4798 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	900074.8952529589	Northing	6571739.672393914
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	0 - 5%
Condition			
Quality	Good	Habitat Features	
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Litter,Vehicle tracks,Weeds	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Isolated shrubs and/or heath shrubs (<0.25%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Forbland (50-80%)	<i>saltbush sp.</i>



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HABC06

Project:	4799 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	900594.4049126134	Northing	6571695.699349251
Landform and soil		Rock	
Landform	Gorge	Rock type/s	Granite
Soil type	Clay	Surface stone cover	
Soil colour	Brown	Surface stone size classes present	0 - 5%
Condition			
Quality	Highly degraded	Habitat Features	
Fire History	Little or no fire evidence (>5 years)	Water Source	Present
Disturbance	Clearing,Litter,Vehicle tracks	Microhabitats	Exfoliating rock
Introduced fauna	Goat		
Vegetation			
Upper stratum	Absent		
Mid stratum	Absent		
Ground stratum	Low (>0.5 m)	Sparse tussock grassland (0.25-20%)	<i>eraharta sp.</i>



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HABC07

Project:	4800 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	901166.9975909423	Northing	6571815.560922004
Landform and soil		Rock	
Landform	Undulating plain	Rock type/s	Granite
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Good		
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Litter,Vehicle tracks	Microhabitats	Burrows,Leaf litter,Peeling bark,Woody debris
Introduced fauna	Cattle,Rabbit		
Vegetation			
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)	<i>Eucalyptus sp. and eremophila sp.</i>
Mid stratum	Low (0.5-1 m)	Shrubland and/or heathland (50-80%)	<i>dodonaea</i>
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	<i>saltbush and Ptilotus sp.</i>



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HABC08

Project:	4801 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	901301.0032407076	Northing	6571962.571508318
Landform and soil		Rock	
Landform	Undulating plain	Rock type/s	Granite
Soil type	Sandy loam	Surface stone cover	
Soil colour	Grey,Orange	Surface stone size classes present	0 - 5%
Condition			
Quality	Good	Habitat Features	
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Introduced fauna	Cattle		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	<i>saltbush sp.</i>



Fulcrum photo ID 212d5260-a83c-4619-b069-494f4f980745,0b6d6cef-7222-4fa8-9bcc-

HABC09

Project:	4802 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	901682.8518081398	Northing	6571863.583170791
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Quartz
Soil type	Sandy clay	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Very good		
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Litter	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp.</i>
Ground stratum	Absent		



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HABC10

Project:	4803 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	902022.5631623187	Northing	6572062.188234046
Landform and soil		Rock	
Landform	Upper slope	Rock type/s	Granite
Soil type	Clay loam	Surface stone cover	
Soil colour	Red	Surface stone size classes present	25 - 50%
Condition			
Quality	Very good	Habitat Features	
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	None observed	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Rock crevices,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Absent		
Mid stratum	Tall (>2 m)	Shrubland and/or heathland (50-80%)	<i>acacia sp. eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	



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HABC11

Project:	4804 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	902400.9875870193	Northing	6571798.486756262
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Calcrete,Granite
Soil type	Sandy loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good	Water Source	Absent
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Leaf litter,Peeling bark,Rock crevices,Woody debris
Disturbance	None observed		
Introduced fauna	Goat,Rabbit		
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Shrubland and/or heathland (50-80%)	<i>eremophila sp. dodenea sp. acacia sp.</i>
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	<i>eremophila</i>



Fulcrum photo ID 3c1c6583-ed7c-459a-93f5-8dd769a4d26c,4211c7c8-571a-4138-af6c-

HABC12

Project:	4805 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	902370.029827407	Northing	6571589.932107501
Landform and soil		Rock	
Landform	Plain	Rock type/s	Unknown
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Very good	Water Source	Absent
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Leaf litter,Peeling bark,Woody debris
Disturbance	None observed		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Shrubland and/or heathland (50-80%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	



Fulcrum photo ID aef600dc-722f-4dd1-a355-599e69a6b123,e75ca763-a192-495f-a373-

HABC13

Project:	4806 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	900730.9056804918	Northing	6570131.034563001
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Granite
Soil type	Clay loam	Surface stone cover	
Soil colour	Brown,Red	Surface stone size classes present	50 - 75%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Leaf litter,Peeling bark,Rock crevices,Woody debris
Disturbance			
Introduced fauna	Goat,Rabbit		
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>Acacia sp.</i>
Mid stratum	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)	<i>dodonaea sp.</i>
Ground stratum	Low (>0.5 m)	Isolated tussock grasses (<0.25%)	<i>grass species</i>



Fulcrum photo ID 58005a12-2165-49c3-b705-24e2a50985e8,0b2d1291-65d4-48da-b5d6

HABC14

Project:	4807 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	900889.8561838119	Northing	6569940.604672145
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Calcrete,Granite,Quartz
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown,Grey	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Disturbed	Water Source	Absent
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Leaf litter,Peeling bark,Woody debris
Disturbance	Vehicle tracks		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp. salt bush</i>
Ground stratum	Mid (0.5-1 m)	Open forbland (20-50%)	<i>salt bush sp.</i>



Fulcrum photo ID 3b56a64c-51c9-4e00-bdc1-f54d4301f218,c0fddb0c-66e8-40b3-9c48-

HABC15

Project:	4808 Coolgardie Biological Spring Survey		
Date	2021-10-12	Personnel	LC
Easting	901542.5074801195	Northing	6568846.8061696505
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Calcrete,Granite
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown,Red	Surface stone size classes present	50 - 75%
Condition		Habitat Features	
Quality	Very good		
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	None observed	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Rock crevices,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>acacia sp.</i>
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	<i>ptilotus sp</i>



Fulcrum photo ID bfb61e82-be29-4f8f-a414-761f945af8e4,e6e2629f-1f45-4bcd-9213-

HABC16

Project:	4809 Coolgardie Biological Spring Survey		
Date	2021-10-13	Personnel	LC
Easting	902295.8342707243	Northing	6571439.575077539
Landform and soil		Rock	
Landform	Drainage line	Rock type/s	Calcrete,Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	0 - 5%
Condition			
Quality	Good	Habitat Features	
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Erosion	Microhabitats	Hollows - trees,Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	<i>Saltbush sp.</i>



Fulcrum photo ID b70c7eb9-827e-46df-b8e4-5e4e110d293a,85f73721-6a97-4980-94c7-

HABC17

Project:	4810 Coolgardie Biological Spring Survey		
Date	2021-10-13	Personnel	LC
Easting	901495.8347967644	Northing	6571719.769933704
Landform and soil		Rock	
Landform	Plain	Rock type/s	Calcrete,Granite,Quartz
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown,Orange,Yellow	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Burrows,Hollows - logs,Hollows - trees,Leaf litter,Peeling bark,Woody debris
Disturbance	Litter,Vehicle tracks		
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>ptilotus sp. and herb sp.</i>



Fulcrum photo ID 372a2bcc-d839-41ff-9db2-d990a2431994,cd2c96ca-6b1d-49e3-b273-

HABC18

Project:	4811 Coolgardie Biological Spring Survey		
Date	2021-10-13	Personnel	LC
Easting	899905.7739034619	Northing	6571300.257774439
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange,Red	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good	Water Source	Absent
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Leaf litter,Peeling bark,Rock crevices,Woody debris
Disturbance	Vehicle tracks		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Isolated trees (<0.25%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Shrubland and/or heathland (50-80%)	<i>dodenea sp. eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	<i>ptilotus sp.</i>



Fulcrum photo ID 3663874c-d46e-438f-8c20-f9744960ca60,30a5a95b-d86a-4c39-8c3b-

HABC19

Project:	4812 Coolgardie Biological Spring Survey		
Date	2021-10-13	Personnel	LC
Easting	899738.7645235118	Northing	6571320.002878793
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Granite,Quartz
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Disturbed	Water Source	Absent
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Disturbance	Vehicle tracks		
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Absent		
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>saltbush sp. and Ptilotus sp.</i>



Fulcrum photo ID 3996f487-e2d9-4d38-9be8-65219fc9ea13,d5e4af84-5d54-464a-b161-

HABC20

Project:	4813 Coolgardie Biological Spring Survey		
Date	2021-10-14	Personnel	LC
Easting	900350.4372829349	Northing	6571342.937353729
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Calcrete,Granite,Quartz
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown,Grey	Surface stone size classes present	5 - 25%
Condition		Habitat Features	
Quality	Disturbed	Water Source	Absent
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Leaf litter,Peeling bark,Woody debris
Disturbance	Erosion,Litter,Vehicle tracks		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>saltbush sp. and herb sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>saltbush sp.</i>



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HABC21

Project:	4814 Coolgardie Biological Spring Survey		
Date	2021-10-14	Personnel	LC
Easting	900421.5213021053	Northing	6571645.335509442
Landform and soil		Rock	
Landform	Claypan	Rock type/s	Granite
Soil type	Clay	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Highly degraded		
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Clearing,Erosion,Litter,Overgrazing,Vehicle	Microhabitats	Rock crevices,Woody debris
Introduced fauna	Cattle		
Vegetation			
Upper stratum	Mid (10-30 m)	Isolated trees (<0.25%)	<i>Eucalyptus sp.</i>
Mid stratum	Absent		
Ground stratum	Low (>0.5 m)	Tussock grassland (50-80%)	<i>grass sp. and thistle sp. sedges boemia sp.</i>



Fulcrum photo ID bfe042ed-7948-4c78-9fe1-7c8541220392,7696b9b4-9eeb-4df8-8e63-

HABC22

Project:	4815 Coolgardie Biological Spring Survey		
Date	2021-10-14	Personnel	LC
Easting	900235.352356134	Northing	6572033.776216977
Landform and soil		Rock	
Landform	Upper slope	Rock type/s	Calcrete,Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange,Red	Surface stone size classes present	5 - 25%
Condition			
Quality	Disturbed	Habitat Features	
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Clearing,Litter,Vehicle tracks,Weeds	Microhabitats	Leaf litter,Peeling bark,Rock crevices,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Woodland (20-50%)	Acacia sp.
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or heathland (0.25-20%)	dodenea sp.
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	ptilotus sp. herbs



Fulcrum photo ID 51a9f868-dbf8-4d0d-aa65-cebf271c9d24,bcb04dd4-53d3-407a-9ce9-

HABC23

Project:	4816 Coolgardie Biological Spring Survey		
Date	2021-10-14	Personnel	LC
Easting	900167.7359049395	Northing	6570928.550377593
Landform and soil		Rock	
Landform	Plain	Rock type/s	Calcrete,Granite,Quartz
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown,Grey,Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Highly degraded		
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Clearing,Litter,Vehicle tracks	Microhabitats	Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>saltbush cena sp. herbs sp.</i>



Fulcrum photo ID 4e1b0f41-0592-423d-8408-a19672a9d5c6,f06cb18e-09e9-41d6-a61b-

HABC24

Project:	4817 Coolgardie Biological Spring Survey		
Date	2021-10-14	Personnel	LC
Easting	899663.2610756675	Northing	6571226.542719762
Landform and soil		Rock	
Landform	Upper slope	Rock type/s	Calcrete,Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	50 - 75%
Condition			
Quality	Very good	Habitat Features	
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Peeling bark,Rock crevices,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Isolated trees (<0.25%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)	<i>eremophila sp. dodenea sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>ptilotus sp. salt bush sp.</i>



Fulcrum photo ID 8f123c2e-9663-4712-845a-fe15deec853c,26ed00e2-46e6-4415-ad80-

C2H2

Project:	4818 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	SW
Easting	897743.7674614477	Northing	6565685.35287808
Landform and soil		Rock	
Landform	Plain	Rock type/s	Laterite
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	50 - 75%
Condition			
Quality	Good	Habitat Features	
Fire History	Little or no fire evidence (>5 years)	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Leaf litter,Peeling bark
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>Acacia and Melaleuca sp</i>
Ground stratum	Low (>0.5 m)	Isolated hummock grasses (<0.25%)	<i>Scaveloa spin</i>



Fulcrum photo ID c4cad0bd-4f57-4209-9459-7401a6a867d2

C2H4

Project:	4819 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	SW
Easting	897738.8708299723	Northing	6565557.982810425
Landform and soil		Rock	
Landform	Plain	Rock type/s	Laterite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	75 - 100%
Condition			
Quality	Very good	Habitat Features	
Fire History	Unknown	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Leaf litter,Peeling bark
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)	<i>Melaleuca sp</i>
Ground stratum	Low (>0.5 m)	Open hummock grassland (20-50%)	<i>Scaveola spin</i>



Fulcrum photo ID a0f87fb2-1a73-43d5-bfb4-bf7e2ce804a4

C2H6

Project:	4820 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	SW
Easting	897718.2217606371	Northing	6565454.049011737
Landform and soil		Rock	
Landform	Plain	Rock type/s	Laterite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	75 - 100%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Unknown	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Disturbance			
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Isolated trees (<0.25%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>Eucalyptus sp</i>
Ground stratum	Low (>0.5 m)		



Fulcrum photo ID a25ac42a-b0be-4c30-a8b2-8e07a2f5bcd9

C2H8

Project:	4821 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	SW
Easting	897820.0346483674	Northing	6565227.984386012
Landform and soil		Rock	
Landform	Plain	Rock type/s	Laterite
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	5 - 25%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Unknown	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Disturbance	None observed		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Isolated trees (<0.25%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>Eremophila sp</i>
Ground stratum			



Fulcrum photo ID 93421722-1ad4-4c10-9e11-de2ef1902d8b

C2H10

Project:	4822 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	SW
Easting	898008.8963851782	Northing	6565265.629842697
Landform and soil		Rock	
Landform	Drainage line	Rock type/s	Calcrete,Laterite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange,Red	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance	Erosion	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)	<i>Eremophila</i>
Ground stratum			



Fulcrum photo ID 45de2c23-38f7-401c-8d48-42e59fe7b842

C2H12

Project:	4823 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	SW
Easting	898183.4047518701	Northing	6565240.394553069
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Laterite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Good		
Fire History	Unknown	Water Source	Absent
Disturbance	Erosion	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Low (0.5-1 m)	Isolated shrubs and/or heath shrubs (<0.25%)	<i>Senna art fil</i>
Ground stratum			



Fulcrum photo ID 08469bcc-a34b-4b23-bf34-76982cd97e9c

HABC2LC01

Project:	4824 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	LC
Easting	899664.2211246493	Northing	6565980.506265143
Landform and soil		Rock	
Landform	Gorge	Rock type/s	Granite,Quartz
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown,Yellow	Surface stone size classes present	50 - 75%
Condition		Habitat Features	
Quality	Highly degraded	Water Source	Absent
Fire History	Unknown	Microhabitats	Exfoliating rock,Rock crevices
Disturbance			
Introduced fauna	None observed		
Vegetation			
Upper stratum	Absent		
Mid stratum	Mid (1-2 m)	Isolated shrubs and/or heath shrubs (<0.25%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>eremophila sp. salt bush sp.</i>



Fulcrum photo ID 4ebf3251-d69c-4d7e-93c5-260eba7ae549,d2ea3ab1-5502-453c-9997-

HABC2LC02

Project:	4825 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	LC
Easting	899850.8139667105	Northing	6565706.821050039
Landform and soil		Rock	
Landform	Drainage line	Rock type/s	Granite,Quartz
Soil type	Sandy clay	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	50 - 75%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Unknown	Microhabitats	Leaf litter,Peeling bark,Rock crevices,Woody debris
Disturbance			
Introduced fauna	Goat		
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	<i>eremophila sp.</i>



Fulcrum photo ID 4b2247e7-9fed-441d-b103-59e6bf65756c,a6bfb91-71be-4e28-992d-

HABC2LC03

Project:	4826 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	LC
Easting	900665.7028282916	Northing	6565871.541426335
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Quartz
Soil type	Sandy clay	Surface stone cover	
Soil colour	Orange,Red	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good	Water Source	Absent
Fire History	Unknown	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Rock crevices,Woody debris
Disturbance	Vehicle tracks		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Open forest (50-80%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp.</i>
Ground stratum	Mid (0.5-1 m)	Sparse forbland (0.25-20%)	<i>eremophila sp.</i>



Fulcrum photo ID b0752528-0a49-4733-a884-d5b48bd2d627,ce6b6969-95db-4c53-bfdd-

HABC2LC04

Project:	4827 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	LC
Easting	900563.0312287982	Northing	6565632.278082406
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Granite,Quartz
Soil type	Clay	Surface stone cover	
Soil colour	Orange,Red	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Unknown	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Rock crevices,Woody debris
Disturbance	Litter,Vehicle tracks		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Woodland (20-50%)	<i>eremophila sp. Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>ptilotus sp.</i>



Fulcrum photo ID 2b2a12b3-b9f2-4fd2-9d5d-b72a773595d9,19860892-f6e1-4a85-843a-

HABC2LC05

Project:	4828 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	LC
Easting	900752.345712022	Northing	6565409.609161669
Landform and soil		Rock	
Landform	Drainage line	Rock type/s	Granite,Quartz
Soil type	Clay	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Unknown	Microhabitats	Leaf litter,Peeling bark,Rock crevices,Woody debris
Disturbance	Erosion,Vehicle tracks		
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>eremophila sp.</i>



Fulcrum photo ID bc023295-6531-4172-95cc-e3d96c28e365,3b64dc10-30df-4627-8e7f-

HABC2LC06

Project:	4829 Coolgardie Biological Spring Survey		
Date	2021-11-15	Personnel	LC
Easting	900415.1933355466	Northing	6565440.556371264
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Quartz
Soil type	Clay	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good	Water Source	Absent
Fire History	Unknown	Microhabitats	Hollows - logs,Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Disturbance	Litter,Vehicle tracks		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Open forest (50-80%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp.</i> , <i>salt bush sp.</i> (in photos)
Ground stratum	Absent		



Fulcrum photo ID 30f77ad9-d6b9-45a3-885d-56cf525debd8,a70c538c-fc2a-4dbd-be76-

C2H14

Project:	4830 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	SW
Easting	898138.1000480026	Northing	6564928.758600489
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Ironstone
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	50 - 75%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance	None observed	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Absent		
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	Acacia sp
Ground stratum	Absent		



Fulcrum photo ID 6eb608e3-e562-4314-b5d8-0ecf176e3906

C2H16

Project:	4831 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	SW
Easting	898035.707931469	Northing	6564690.336170336
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Ironstone
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance	None observed	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>Eremophila</i>
Ground stratum	Absent		



Fulcrum photo ID 10efecf9-ff45-4474-8f07-5ef50a3af30e

C2H18

Project:	4832 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	SW
Easting	897721.3419470013	Northing	6564081.199149741
Landform and soil		Rock	
Landform	Upper slope	Rock type/s	Calcrete, Laterite
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Disturbed	Water Source	Absent
Fire History	Unknown	Microhabitats	Hollows - logs, Leaf litter, Peeling bark, Woody debris
Disturbance			
Introduced fauna	None observed		
Vegetation			
Upper stratum	Absent		
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>Eremophila</i>
Ground stratum	Absent		



Fulcrum photo ID 25ba9c30-9a14-438f-952a-4d1cff16da86

C2H20

Project:	4833 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	SW
Easting	897584.545833359	Northing	6563668.195859093
Landform and soil		Rock	
Landform	Escarpment	Rock type/s	Laterite
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good	Water Source	Absent
Fire History	Unknown	Microhabitats	Hollows - logs, Leaf litter, Peeling bark, Woody debris
Disturbance	None observed		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>Eremophila</i>
Ground stratum			



Fulcrum photo ID 2cd10b5a-17ad-4733-9cfb-f59f28c2f915

C2H22

Project:	4834 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	SW
Easting	897407.7797388354	Northing	6563338.106537405
Landform and soil		Rock	
Landform	Lower slope	Rock type/s	Laterite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Unknown	Microhabitats	Hollows - trees,Leaf litter,Peeling bark,Woody debris
Disturbance			
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Absent		
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>Acacia sp</i>
Ground stratum	Absent		



Fulcrum photo ID 41f4047f-24e6-432f-a252-5b9c5469bfc3

C2H24

Project:	4835 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	SW
Easting	897534.3882230611	Northing	6563041.229803004
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Calcrete,Laterite
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	50 - 75%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Unknown	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Disturbance	None observed		
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>Atriplex sp</i>
Ground stratum	Absent		



Fulcrum photo ID 271b8409-d185-4552-a223-f5daf7b9d31a

C2H26

Project:	4836 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	SW
Easting	898122.0154905103	Northing	6562781.590976534
Landform and soil		Rock	
Landform	Plain	Rock type/s	Laterite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Unknown	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Disturbance	Vehicle tracks		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Isolated shrubs and/or heath shrubs (<0.25%)	<i>Senna sp</i>
Ground stratum			



Fulcrum photo ID 1f602d5d-5404-457f-b29f-7f84c7aaf087

C2H28

Project:	4837 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	SW
Easting	898839.090998794	Northing	6563393.36065102
Landform and soil		Rock	
Landform	Drainage line	Rock type/s	Laterite
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good	Water Source	Absent
Fire History	Unknown	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Disturbance	None observed		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>Eremophila</i>
Ground stratum	Absent		



Fulcrum photo ID c4b932de-0fdf-423c-ad63-8302ddd73365

C2H30

Project:	4838 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	SW
Easting	898737.6863762725	Northing	6563394.817201562
Landform and soil		Rock	
Landform	Drainage line	Rock type/s	Laterite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance	Erosion	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>Acacia</i>
Ground stratum	Absent		



Fulcrum photo ID d16a4f03-6dd4-407a-9184-f1b3cd802bc0

HABC2LC07

Project:	4839 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	LC
Easting	900704.6350980257	Northing	6565575.750708525
Landform and soil		Rock	
Landform	Drainage line	Rock type/s	Granite,Quartz
Soil type	Clay	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Good		
Fire History	Unknown	Water Source	Absent
Disturbance	Erosion	Microhabitats	Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>eremophila sp.</i>



Fulcrum photo ID 51affc75-b427-4809-8ef2-d024d562bb5f,266b71e9-b0ea-422e-8f3d-

HABC2LC08

Project:	4840 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	LC
Easting	900776.5532258475	Northing	6565713.262605984
Landform and soil		Rock	
Landform	Upper slope	Rock type/s	Granite
Soil type	Clay	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance	None observed	Microhabitats	Leaf litter,Peeling bark,Rock crevices,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>ptilotus sp.</i>



Fulcrum photo ID 21c66f48-529d-461a-b6c1-d0ce4033c0f2,193ee8c1-7c0d-4271-ac0a-

HABC2LC09

Project:	4841 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	LC
Easting	900164.9336511727	Northing	6565653.958929246
Landform and soil		Rock	
Landform	Drainage line	Rock type/s	Granite,Quartz
Soil type	Sand	Surface stone cover	
Soil colour	Orange,White	Surface stone size classes present	5 - 25%
Condition		Habitat Features	
Quality	Good		
Fire History	Unknown	Water Source	Absent
Disturbance	Erosion	Microhabitats	Hollows - logs,Hollows - trees,Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>eremophila sp.</i>
Ground stratum	Mid (0.5-1 m)	Forbland (50-80%)	<i>eremophila sp.</i>



Fulcrum photo ID 0fca10bc-0b3f-4884-a596-1bdc49f0718d,8c8bcab2-c4f1-453a-9933-

HABC2LC10

Project:	4842 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	LC
Easting	900449.314056684	Northing	6564956.76156202
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Quartz
Soil type	Clay	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	5 - 25%
Condition		Habitat Features	
Quality	Disturbed	Water Source	Absent
Fire History	Unknown	Microhabitats	Peeling bark,Woody debris
Disturbance	Clearing,Erosion,Litter		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Absent		
Mid stratum	Mid (1-2 m)	Isolated shrubs and/or heath shrubs (<0.25%)	<i>eremophila</i> sp.
Ground stratum	Mid (0.5-1 m)	Forbland (50-80%)	<i>eremophila</i> sp.



Fulcrum photo ID 490f139c-c787-45ce-8b70-4790296ee53c,e21395e7-7464-42cf-bbb9-

HABC2LC11

Project:	4843 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	LC
Easting	901276.6564614684	Northing	6565677.347229139
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Quartz
Soil type	Clay	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	5 - 25%
Condition		Habitat Features	
Quality	Very good	Water Source	Absent
Fire History	Unknown	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Disturbance	Vehicle tracks		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>Eucalyptus</i> sp.
Mid stratum	Mid (1-2 m)	Isolated shrubs and/or heath shrubs (<0.25%)	<i>eremophila</i> sp.
Ground stratum	Low (>0.5 m)	Forbland (50-80%)	<i>eremophila</i> sp.



Fulcrum photo ID bbb0226c-b301-4a5f-ae00-44c3dc787f94,d6688097-4e41-4751-a79f-

HABC2LC12

Project:	4844 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	LC
Easting	900519.9630059553	Northing	6566882.003260277
Landform and soil		Rock	
Landform	Claypan	Rock type/s	None
Soil type	Clay	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	
Condition		Habitat Features	
Quality	Disturbed	Water Source	Present
Fire History	Unknown	Microhabitats	
Disturbance	Vehicle tracks,Weeds		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Absent		
Mid stratum	Absent		
Ground stratum	Low (>0.5 m)	Grassland (50-80%)	various weeds



Fulcrum photo ID 5e418349-31da-4044-8d04-a4990c1f72b0,450a84a8-a05b-4ee2-a0d1-

HABC2LC13

Project:	4845 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	LC
Easting	900731.210354395	Northing	6567309.737509467
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite
Soil type	Clay loam	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	High quality	Water Source	Absent
Fire History	Unknown	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Disturbance	None observed		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Woodland (20-50%)	eucalyptus sp.
Mid stratum	Tall (>2 m)	Shrubland and/or heathland (50-80%)	eremophila sp.
Ground stratum	Mid (0.5-1 m)	Open forbland (20-50%)	eremophila sp. amd other mixed herbs



Fulcrum photo ID 570709d4-00c6-43d2-9de6-ef44159e1c8e,2c8bbe5f-630c-45f1-87bb-

HABC2LC14

Project:	4846 Coolgardie Biological Spring Survey		
Date	2021-11-16	Personnel	LC
Easting	900023.0356903123	Northing	6566601.201476825
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Disturbed	Water Source	Absent
Fire History	Unknown	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Rock crevices,Woody debris
Disturbance	Clearing,Vehicle tracks,Weeds		
Introduced fauna	Goat,Rabbit		
Vegetation			
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)	<i>eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Isolated shrubs and/or heath shrubs (<0.25%)	<i>acacia sp.</i>
Ground stratum	Low (>0.5 m)	Forbland (50-80%)	<i>eremophila sp.</i>



Fulcrum photo ID 2cc3ef18-e4b7-46ee-9c1d-0f4614438dc9,6c342fc0-f7f5-443d-9f15-

HABC2LC15

Project:	4847 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	LC
Easting	900431.2214361653	Northing	6572530.387661901
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Very good	Water Source	Absent
Fire History	Unknown	Microhabitats	Leaf litter,Peeling bark,Woody debris
Disturbance	Vehicle tracks		
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)	<i>dodenea sp.</i>
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	<i>ptilotus sp.</i>



Fulcrum photo ID 4199f50b-b3c4-4fd5-9f8a-3a7d7df69999,761b02e4-9a61-427a-b17e-

HABC2LC16

Project:	4848 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	LC
Easting	900465.6771902259	Northing	6573277.0945564695
Landform and soil		Rock	
Landform	Plain	Rock type/s	Calcrete,Granite
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	Cattle		
Vegetation			
Upper stratum	Low (<10 m)	Open forest (50-80%)	<i>eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp.</i>
Ground stratum	Mid (0.5-1 m)	Sparse forbland (0.25-20%)	<i>eremophila sp. mixed herbs</i>



Fulcrum photo ID c208e2cf-2947-4ff4-b0f0-2556bb277948,c4d25400-28ff-4427-be00-

HABC2LC17

Project:	4849 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	LC
Easting	897973.2561752913	Northing	6573513.342421641
Landform and soil		Rock	
Landform	Upper slope	Rock type/s	Calcrete,Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	5 - 25%
Condition			
Quality	Very good	Habitat Features	
Fire History	Unknown	Water Source	Absent
Disturbance	None observed	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Open forest (50-80%)	<i>eucalyptus sp., acacia sp.</i>
Mid stratum	Low (0.5-1 m)	Shrubland and/or heathland (50-80%)	<i>dodenea sp, eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>ptilotus sp., eremophila sp.</i>



Fulcrum photo ID 372d8949-1d3b-4870-87bd-7951b013d9e4,6cf82aac-74d5-4f6d-afb6-

HABC2LC18

Project:	4850 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	LC
Easting	897208.723548352	Northing	6573995.251239745
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	5 - 25%
Condition			
Quality	Very good	Habitat Features	
Fire History	Unknown	Water Source	Absent
Disturbance	Litter,Vehicle tracks	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Isolated shrubs and/or heath shrubs (<0.25%)	<i>eremophila sp.</i>
Ground stratum	Tall (1-2 m)	Forbland (50-80%)	<i>eremophila sp.</i>



Fulcrum photo ID 7081e49e-b513-4cfc-a25e-8219bc15b8f3,4be2e29b-ea2a-4adf-9a60-

HABC2LC19

Project:	4851 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	LC
Easting	897024.5424583412	Northing	6573400.948208064
Landform and soil		Rock	
Landform	Plain	Rock type/s	Calcrete,Ironstone,Laterite
Soil type	Sandy loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	75 - 100%
Condition			
Quality	Good	Habitat Features	
Fire History	Unknown	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>eucalyptus sp.</i>
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Isolated forbs (<0.25%)	<i>herb in photos</i>



Fulcrum photo ID 4635704e-82e0-486f-bffd-6cb63a245066,db940a29-9610-40ed-a43e-

HABC2LC20

Project:	4852 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	LC
Easting	897207.7894486763	Northing	6573276.328611162
Landform and soil		Rock	
Landform	Plain	Rock type/s	Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	5 - 25%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Hollows - trees,Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eucalyptus sp.</i>
Ground stratum	Mid (0.5-1 m)	Forbland (50-80%)	<i>eremophila sp. eremophila sp.</i>



Fulcrum photo ID b50692de-a768-4d17-bf33-bb534451e50e,1a36084b-a01d-479b-8a3d-

C2H32

Project:	4853 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	SW
Easting	898647.6288961614	Northing	6563412.670039611
Landform and soil		Rock	
Landform	Escarpment	Rock type/s	Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	50 - 75%
Condition			
Quality	Very good	Habitat Features	
Fire History	Unknown	Water Source	Absent
Disturbance	None observed	Microhabitats	Hollows - logs,Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>Acacia sp</i>
Ground stratum	Absent		



Fulcrum photo ID 6fed3548-6854-44ad-ace1-79cee900d9bb

C2H34

Project:	4854 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	SW
Easting	898574.3445931688	Northing	6563567.903756286
Landform and soil		Rock	
Landform	Lower slope	Rock type/s	Laterite
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	50 - 75%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Unknown	Microhabitats	Hollows - logs, Leaf litter, Peeling bark, Woody debris
Disturbance			
Introduced fauna	None observed		
Vegetation			
Upper stratum	Absent		
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>Acacia</i>
Ground stratum	Absent		



Fulcrum photo ID 5cebab13-aadb-470a-b104-5994b272e88d

C2H36

Project:	4855 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	SW
Easting	898440.2002370819	Northing	6572518.477781318
Landform and soil		Rock	
Landform	Upper slope	Rock type/s	Granite, Laterite
Soil type	Loam	Surface stone cover	
Soil colour	Brown, Orange	Surface stone size classes present	5 - 25%
Condition		Habitat Features	
Quality	Good	Water Source	Absent
Fire History	Unknown	Microhabitats	Hollows - logs, Leaf litter, Peeling bark, Woody debris
Disturbance	None observed		
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>Eremophila</i>
Ground stratum	Absent		



Fulcrum photo ID 3ee1eb2e-e0e3-4e77-9780-bb40cd650728

C2H38

Project:	4856 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	SW
Easting	898296.4071683842	Northing	6572123.600769359
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Granite,Laterite,Quartz
Soil type	Loam	Surface stone cover	
Soil colour	Orange,Red	Surface stone size classes present	50 - 75%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance		Microhabitats	Hollows - logs,Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Absent		
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	Acacia
Ground stratum	Absent		



Fulcrum photo ID b933e67c-48b0-421d-8100-6518118a4171

C2H40

Project:	4857 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	SW
Easting	897937.4325779848	Northing	6572315.898469241
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Laterite,Quartz
Soil type	Loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	50 - 75%
Condition			
Quality	Very good	Habitat Features	
Fire History	Unknown	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Hollows - logs,Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Absent		
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	Acacia
Ground stratum	Absent		



Fulcrum photo ID 219563fd-c9bd-4cd0-8160-634649c52222

C2H42

Project:	4858 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	SW
Easting	897160.8402197923	Northing	6571960.858564717
Landform and soil		Rock	
Landform	Lower slope	Rock type/s	Ironstone,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	75 - 100%
Condition		Habitat Features	
Quality	Good		
Fire History	Unknown	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Leaf litter,Woody debris
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>Eremophila</i>
Ground stratum	Absent		



Fulcrum photo ID e4db22e5-83d5-4438-9c84-680175928daf

C2H46

Project:	4859 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	SW
Easting	897842.0485219336	Northing	6571592.065394482
Landform and soil		Rock	
Landform	Undulating plain	Rock type/s	Ironstone,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance	None observed	Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>Eremophila and Atriplex</i>
Ground stratum	Absent		



Fulcrum photo ID d8c7d48f-634c-4c46-a402-4949c69c1196

C2H48

Project:	4860 Coolgardie Biological Spring Survey		
Date	2021-11-17	Personnel	SW
Easting	897986.3585784157	Northing	6572856.793533593
Landform and soil		Rock	
Landform	Upper slope	Rock type/s	Granite,Ironstone,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	50 - 75%
Condition		Habitat Features	
Quality	Disturbed		
Fire History	Unknown	Water Source	Absent
Disturbance		Microhabitats	Hollows - logs,Leaf litter,Peeling bark,Woody debris
Introduced fauna			
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>Acacia, eremophila, senna</i>
Ground stratum	Absent		



Fulcrum photo ID 77fa71fc-2061-4776-b46f-5533c5547e69

C2H50

Project:	4861 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	SW
Easting	899410.3384907652	Northing	6573733.02122001
Landform and soil		Rock	
Landform	Plain	Rock type/s	Laterite
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Disturbed		
Fire History	Unknown	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Woody debris
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Absent		
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>Allocasuarina, Acacia</i>
Ground stratum	Absent		



Fulcrum photo ID fc56790e-0b7a-4af8-83ad-43361892dc2a

C2H52

Project:	4862 Coolgardie Biological Spring Survey			
Date	2021-11-18	Personnel	SW	
Easting	899024.133330778	Northing	6573326.9469294455	
Landform and soil		Rock		
Landform	Claypan	Rock type/s	Laterite,Quartz	
Soil type	Clay loam	Surface stone cover		
Soil colour	Orange	Surface stone size classes present	5 - 25%	
Condition		Habitat Features		
Quality	Disturbed	Water Source	Absent	
Fire History	Unknown		Microhabitats	Leaf litter,Logs > 10 cm,Woody debris
Disturbance	Vehicle tracks			
Introduced fauna	Cattle,Rabbit			
Vegetation				
Upper stratum	Absent			
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>Eremophila</i>	
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>Weed</i>	



Fulcrum photo ID 3932baf5-4aea-4948-89e6-ec5c8ba929e9

C2H54

Project:	4863 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	SW
Easting	898558.6120445768	Northing	6577434.127282435
Landform and soil		Rock	
Landform	Undulating plain	Rock type/s	Ironstone,Laterite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance	None observed	Microhabitats	Hollows - logs,Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	Rabbit		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)	<i>Eremophila</i>
Ground stratum	Absent		



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C3H2

Project:	4864 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	SW
Easting	901330.4863598039	Northing	6566876.698387651
Landform and soil		Rock	
Landform	Upper slope	Rock type/s	Granite,Laterite
Soil type	Clay loam	Surface stone cover	
Soil colour	Brown	Surface stone size classes present	50 - 75%
Condition		Habitat Features	
Quality	Good		
Fire History	Unknown	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>Senna sp</i>
Ground stratum	Absent		



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C3H6

Project:	4865 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	SW
Easting	901099.8592427254	Northing	6567133.638773368
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Granite,Laterite,Quartz
Soil type	Clay	Surface stone cover	
Soil colour	Brown	Surface stone size classes present	25 - 50%
Condition			
Quality	Good	Habitat Features	
Fire History	Unknown	Water Source	Absent
Disturbance	None observed	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	Cattle		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>Eremophila</i>
Ground stratum	Absent		



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HABC2LC21

Project:	4866 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	LC
Easting	897544.5825756477	Northing	6572777.829306185
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Ironstone,Quartz
Soil type	Clay	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	5 - 25%
Condition		Habitat Features	
Quality	Good		
Fire History	Unknown	Water Source	Absent
Disturbance	Litter,Vehicle tracks	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>eremophila sp</i>



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HABC2LC22

Project:	4867 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	LC
Easting	897656.784997021	Northing	6572883.799383562
Landform and soil		Rock	
Landform	Mid slope	Rock type/s	Calcrete,Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	25 - 50%
Condition		Habitat Features	
Quality	Highly degraded		
Fire History	Unknown	Water Source	Absent
Disturbance	Clearing,Erosion,Vehicle tracks	Microhabitats	Rock crevices,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Absent		
Mid stratum	Mid (1-2 m)	Isolated shrubs and/or heath shrubs (<0.25%)	<i>eucalyptus sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>eremophila sp.</i>



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HABC2LC23

Project:	4868 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	LC
Easting	897726.5517688439	Northing	6573587.154734112
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Leaf litter,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Absent		
Mid stratum	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)	<i>eremophila</i> sp.
Ground stratum	Low (>0.5 m)	Open hummock grassland (20-50%)	<i>eremophila</i> sp.



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HABC2LC24

Project:	4869 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	LC
Easting	897731.7215430276	Northing	6578600.152287805
Landform and soil		Rock	
Landform	Plain	Rock type/s	Calcrete,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Disturbed		
Fire History	Unknown	Water Source	Absent
Disturbance	Litter,Vehicle tracks	Microhabitats	Leaf litter,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp.</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>eremophila sp.</i>



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HABC3LC01

Project:	4870 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	LC
Easting	901535.8496579034	Northing	6568495.428023138
Landform and soil		Rock	
Landform	Plain	Rock type/s	Granite,Ironstone,Quartz
Soil type	Clay loam	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	0 - 5%
Condition		Habitat Features	
Quality	Very good		
Fire History	Unknown	Water Source	Absent
Disturbance	Vehicle tracks,Weeds	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Shrubland and/or heathland (50-80%)	<i>eremophila sp.</i>
Ground stratum	Mid (0.5-1 m)	Forbland (50-80%)	<i>eremophila sp.</i>



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HABC3LC02

Project:	4871 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	LC
Easting	901385.6159884571	Northing	6567944.72848946
Landform and soil		Rock	
Landform	Plain	Rock type/s	Calcrete,Granite,Ironstone
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown,Orange	Surface stone size classes present	5 - 25%
Condition		Habitat Features	
Quality	Good		
Fire History	Unknown	Water Source	Absent
Disturbance	Litter,Vehicle tracks	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	Cattle		
Vegetation			
Upper stratum	Low (<10 m)	Woodland (20-50%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>eremophila sp., sandlewood</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>eremophila sp. and mixed herbs</i>



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HABC3LC03

Project:	4872 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	LC
Easting	901116.1473216031	Northing	6567716.167221133
Landform and soil		Rock	
Landform	Undulating plain	Rock type/s	Calcrete,Granite
Soil type	Sandy loam	Surface stone cover	
Soil colour	Brown,Orange,Red	Surface stone size classes present	50 - 75%
Condition		Habitat Features	
Quality	Good		
Fire History	Unknown	Water Source	Absent
Disturbance	Litter,Vehicle tracks	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)	<i>dodenea sp, mixed shrubs</i>
Ground stratum	Low (>0.5 m)	Sparse forbland (0.25-20%)	<i>mixed herbs</i>



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HABC3LC04

Project:	4873 Coolgardie Biological Spring Survey		
Date	2021-11-18	Personnel	LC
Easting	900730.2686670613	Northing	6567991.079386459
Landform and soil		Rock	
Landform	Plain	Rock type/s	Calcrete,Granite
Soil type	Sandy loam	Surface stone cover	
Soil colour	Orange	Surface stone size classes present	25 - 50%
Condition			
Quality	Very good	Habitat Features	
Fire History	Unknown	Water Source	Absent
Disturbance	Vehicle tracks	Microhabitats	Leaf litter,Logs > 10 cm,Peeling bark,Woody debris
Introduced fauna	None observed		
Vegetation			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	<i>Eucalyptus sp.</i>
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)	<i>eremophila sp.</i>
Ground stratum	Mid (0.5-1 m)	Sparse forbland (0.25-20%)	<i>eremophila sp., mixed herbs</i>



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Appendix G

Fauna Inventory

Conservation Status: State - Listed under Biodiversity Conservation Act 2016 or Department of Biodiversity, Conservation and Attractions Conservation, Federal - Listed under Environmental Protection and Biodiversity Conservation Act 1999. VU - Vulnerable, MA - Marine. * - Introduced species.

Family	Scientific Name	Common Name	Conservation Status		Method						
			State	Federal	Sighting	Call	Remains	Scat	Tracks	Burrow	Digging
Aves											
Acanthizidae	Smicrornis brevirostris	Weebill				2					
	Acanthiza inornata	Western Thornbill				2					
	Aphelocephala leucopsis	Southern Whiteface				1					
	Calamanthus cautus	Shy Groundwren (Shy Heathwren)				1					
	Acanthiza uropygialis	Chestnut-rumped Thornbill			2	1					
	Sericornis frontalis					1					
Artamidae	Artamus personatus	Masked Woodswallow			2						
Cacatuidae	Cacatua roseicapilla	Galah				1					
	Cacatua leadbeateri	Major Mitchell's Cockatoo				1					
Campephagidae	Coracina novaehollandiae	Black-faced Cuckoo-shrike		MA	2			1			
	Coracina maxima	Ground Cuckoo-shrike				1					
	Lalage tricolor	White-winged Triller				1					
Climacteridae	Climacteris rufus	Rufous Treecreeper				1					
Columbidae	Phaps chalcoptera	Common Bronzewing			1						
	Ocyphaps lophotes	Crested Pigeon			3						
Corvidae	Corvus bennetti	Little Crow				5					
	Corvus orru ceciliae	Western Crow				1					
	Corvus coronoides	Australian Raven			2						
Cracticidae	Strepera versicolor	Grey Currawong			4	2					
Dromaiidae	Dromaius novaehollandiae	Emu						1	2		
Estrildidae	Taeniopygia guttata	Zebra Finch				2					
Falconidae	Falco cenchroides	Australian Kestrel (Nankeen Kestrel)		MA	3						
Maluridae	Malurus splendens	Splendid Fairywren				1					
Meliphagidae	Anthochaera carunculata	Red Wattlebird			1	3					
	Lichmera indistincta	Brown Honeyeater				1					
	Gavicalis virescens	Singing Honeyeater			13	2					

Family	Scientific Name	Common Name	Conservation Status		Method						
			State	Federal	Sighting	Call	Remains	Scat	Tracks	Burrow	Digging
	<i>Manorina flavigula</i>	Yellow-throated Miner				4					
	<i>Acanthagenys rufogularis</i>	Spiny-cheeked Honeyeater			7						
	<i>Melithreptus brevirostris</i>	Brown-headed Honeyeater				1					
	<i>Gliciphila melanops</i>	Tawny-crowned Honeyeater			2	1					
Meropidae	<i>Merops ornatus</i>	Rainbow Bee-eater		MA	1						
Monarchidae	<i>Grallina cyanoleuca</i>	Magpie-lark		MA	2						
Motacillidae	<i>Anthus australis</i>	Australian Pipit			4						
Oreoicidae	<i>Oreoica gutturalis</i>	Crested Bellbird			1	11					
Otididae	<i>Ardeotis australis</i>	Australian Bustard							1		
Pachycephalidae	<i>Pachycephala rufiventris</i>	Rufous Whistler			5	8					
	<i>Pachycephala occidentalis</i>	Western Golden Whistler (Western Whistler)			6						
Petroicidae	<i>Microeca fascians</i>	Jacky Winter			1	1					
Psittacidae	<i>Melopsittacus undulatus</i>	Budgerigar			23						
	<i>Platycercus zonarius</i>	Australian Ringneck			17	2					
Psophodidae	<i>Cinclosoma clarum</i>	Western Chestnut Quail-thrush (Copperback Quail-thrush)			2						
Rhipiduridae	<i>Rhipidura leucophrys</i>	Willie Wagtail			2						
Mammalia											
Bovidae	<i>*Capra hircus</i>	Goat						8	1		
	<i>*Bos taurus</i>	European Cattle						9	7		
Canidae	<i>*Canis familiaris familiaris</i>	Dog						2			
	<i>*Vulpes vulpes</i>	Red Fox						1			
Dasyuridae	<i>Dasyurus geoffroii fortis</i>	Western Quoll, Chuditch	VU	VU				1			
Equidae	<i>*Equus caballus</i>	Horse						1			
Felidae	<i>*Felis catus</i>	Cat					1				
Leporidae	<i>*Oryctolagus cuniculus</i>	Rabbit			1		3	18		1	2
Macropodidae	<i>Macropus fuliginosus melanops</i>	Western Grey Kangaroo			1			39	2		
	<i>Osphranter rufus</i>	Red Kangaroo, Marlu			2						
Reptilia											
Agamidae	<i>Ctenophorus maculatus</i>				2						

Family	Scientific Name	Common Name	Conservation Status		Method						
			State	Federal	Sighting	Call	Remains	Scat	Tracks	Burrow	Digging
	<i>Ctenophorus cristatus</i>	Bicycle Dragon			6						
	<i>Tympanocryptis pseudopsephos</i>	Goldfields pebble-mimic dragons			2						
	<i>Ctenophorus ornatus</i>	Ornate Crevice Dragon			1						
Diplodactylidae	<i>Crenadactylus ocellatus</i>	South-western Clawless Gecko			3						
Gekkonidae	<i>Heteronotia binoei</i>	Bynoe's Gecko			8						
	<i>Gehyra variegata</i>	Variegated gehyra			2						
Scincidae	<i>Tiliqua rugosa</i>	Bobtail			8		2				
Varanidae	<i>Varanus gouldii</i>	Bungarra or Sand Goanna			1						



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Coolgardie Project

Coolgardie *Camponotus* sp. nr. *terebrans* Targeted Survey

Prepared for
Focus Minerals Limited

May 2022

● people ● planet ● professional

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5023AA_Rev2	Client Final	M. Lohr	S. Walker	LI	1x electronic	03/05/2022

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Executive Summary

Focus Minerals Limited commissioned 360 Environmental Pty Ltd part of SLR Consulting to undertake a targeted survey for the ant *Camponotus* sp. nr. *terebrans* – an ant species associated with the Arid Bronze Azure Butterfly (*Ogyris subterrestris petrina*, CR, DBCA EPBC) within the Three Mile Mine Project, Coolgardie. The Survey Area consists of several discrete parcels of land adjacent to the townsite of Coolgardie, Western Australia and covers approximately 1,786 ha.

The purpose of the assessment was to determine whether colonies of the ant *Camponotus* sp. nr. *terebrans* were present within the Survey Area in large enough numbers to support the Arid Bronze Azure Butterfly (ABAB). The survey was conducted to inform decisions regarding the specific lease areas for proposed construction sites within the Survey Area. This report presents the background, methods, results, and discussion of the survey undertaken.

Potential ABAB habitat containing smooth-barked eucalypt species within the Survey Area was delimited prior to the survey based on aerial imagery and previous 360 Environmental biological surveys to the Survey Area. Within the 1,055 ha of potential ABAB habitat, 326 suitable trees were searched in accordance with DBCA protocols. Searching was also conducted during transects between the trees identified at each tree survey point.

No colonies of *Camponotus* sp. nr. *terebrans* were detected within the Survey Area. A single colony of ants in the genus *Camponotus* was observed, however, the ants were identified as *Camponotus nigriceps*. This species is not associated with the ABAB. The Survey Area falls within the known range of the ABAB, and smooth-barked eucalypts used by their host ant are widespread within the Survey Area. However, habitat quality within the Survey Area was generally poor due to scarcity of loose sandy soils where *C. sp. nr. terebrans* typically occurs. Substantial levels of disturbance from historic mining activities within the Survey Area may facilitate the high abundance of the meat ant *Iridomyrmex purpureus* observed during the survey. *Iridomyrmex purpureus* is considered a competitor of the ABAB. The high abundance of this species, in conjunction with suboptimal substrates, probably explains the lack of detection of *C. sp. nr. terebrans* within the Survey Area.

Another conservation significant butterfly, the Inland Hairstreak (*Jalmenus aridus*, P1, DBCA), was opportunistically observed during the survey at three locations in the southwest of the Survey Area. Three adults were collected for identification and the specimens have been vouchered at the Western Australia Museum. A total of 16 adult Inland Hairstreaks were observed, including the three collected specimens. This species was previously only known from one location; however, three additional populations of the species have recently been found north of Kalgoorlie. Host plants used by *J. aridus* and similar habitats to the sites where *J. aridus* was observed within the Survey Area appear to be present in the nearby Kangaroo Hills Timber Reserve and are common in the wider region. This suggests that additional populations might be detected in similar habitats in adjacent areas outside the Survey Area under appropriate environmental conditions.

Abbreviations

Abbreviations used through the report are described below in

Table 1: Abbreviations

Abbreviations	Description
ABAB	Arid Bronze Azure Butterfly (<i>Ogyris subterrestris petrina</i>)
BAM Act	Biosecurity and Agriculture Management Act 2007
BC Act	Biodiversity Conservation Act 2016
BoM	Bureau of Meteorology
CD	Conservation Dependent Fauna
CR	Critically Endangered
DAWE	Department of Agriculture, Water, and the Environment
DBCA	Department of Biodiversity, Conservation and Attractions
DoE	Department of Environment
DP	Declared Pest
DWER	Department of Water and Environmental Regulation
EIA	Environmental Impact Assessment
EN	Endangered
EP Act	Environmental Protection Act 1986
EPA	Environmental Protection Authority
EPBC Act	Environment Protection Biodiversity and Conservation Act 1999
ESA	Environmentally Sensitive Area
IBRA	Interim Biogeographic Regionalisation for Australia
IBSA	Index of Biodiversity Surveys for Assessments
MI	Migratory
MNES	Matters of National Environmental Significance
NVIS	National Vegetation Information System
OS	Other Specially Protected Fauna
P	Priority
PEC	Priority Ecological Community

Abbreviations	Description
PMST	Protected Matters Search Tool
T	Threatened
TEC	Threatened Ecological Community
TPFL	Threatened and Priority Flora Database
VU	Vulnerable
WAH	Western Australian Herbarium
WAM	Western Australian Museum
WoNS	Weeds of National Significance

Table of Contents

1	Introduction.....	1
1.1	The Project.....	1
1.2	Objectives and Scope	1
2	Background.....	2
2.1	Protection of Fauna.....	2
2.2	Existing Environment	3
3	Methods.....	5
3.1	Field Survey	5
3.2	Limitations.....	7
4	Results.....	9
4.1	<i>Camponotus</i> sp. nr. <i>terebrans</i> and Arid Bronze Azure Butterflies.....	9
4.2	<i>Jalmenus aridus</i>	9
5	Discussion	11
5.1	<i>Camponotus</i> sp. nr. <i>terebrans</i> and Arid Bronze Azure Butterflies.....	11
5.2	<i>Jalmenus aridus</i>	12
6	Conclusion	14
7	References	15
8	Report Disclaimer	17

List of Tables

Table 1: Abbreviations.....	ii
Table 2: Targeted <i>Camponotus</i> sp. nr. <i>terebrans</i> Survey weather conditions	7
Table 3: Limitations and constraints associated with the survey.....	7
Table 4: <i>Jalmenus aridus</i> collected at Focused Minerals Ltd., Three Mile Project site at Coolgardie by R. Eastwood and M. Lohr in December 2021	10

List of Plates

Plate 1: <i>Jalmenus aridus</i> observed within the Survey Area	10
Plate 2: Habitat present at tree survey point 297	10
Plate 3: Habitat present at tree survey point 274.....	10

List of Graphs

Graph 1: Long term (1991-2020) and 2021 total rainfall, maximum and minimum temperatures for Kalgoorlie-Boulder Airport weather station (Station 012038) (Bureau of Meteorology, 2021).	3
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List of Figures (out of text)

Figure 1: Survey Area and Conservation and Environmentally Sensitive Areas

Figure 2: Potential ABAB Habitat and Survey Effort

Figure 3: *Camponotus nigriceps* Nest

Figure 4: Inland Hairstreak (*Jaimeus aridus*) Locations and Numbers Observed

1 Introduction

1.1 The Project

Focus Mineral Limited (FML) commissioned 360 Environmental Pty Ltd (360 Environmental) part of SLR Consulting (SLR) to undertake a fauna survey targeting the host ant (*Camponotus* sp. nr. *terebrans*) of the critically endangered Arid Bronze Azure Butterfly (*Ogyris subterrestris petrina*) (ABAB) to support the environmental and planning approvals for proposed expansions to the FML mining operation in Coolgardie Western Australia (the Project).

The Project consists of pre-defined Survey Areas surrounding the townsite of Coolgardie, Western Australia (Figure 1) and covers approximately 1786 hectares (ha) in the Coolgardie bioregion of Western Australia.

1.2 Objectives and Scope

In order to meet the objectives of this assessment, the following scope of works was undertaken:

- Conduct a targeted survey for the ant species *Camponotus* sp. nr. *terebrans* in all areas of suitable habitat in the Survey Area, applying the formula for number and spacing of sample trees given by Department of Biodiversity, Conservation and Attractions (2020a) based on area of suitable habitat
- Produce a succinct report and maps to identify presence/absence of *Camponotus* sp. nr. *terebrans* at all tree survey points, and extent of any large colonies of the ant
- Opportunistically scan suitable habitat for *Jalmenus aridus*
- Produce a final report detailing presence/absence of *Camponotus* sp. nr. *terebrans* and report on any *Jalmenus aridus* sightings.

2 Background

2.1 Protection of Fauna

Western Australian fauna is formally protected by the following legislative measures:

- *Biodiversity Conservation Act 2016* (WA) (BC Act)
- *Environmental Protection Act 1986* (WA) (EP Act)
- *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act).

In addition to these legislative measures, the WA Department of Biodiversity, Conservation and Attractions (DBCA) priority fauna list provides a non-legislative list of possibly threatened, rare but not threatened or near threatened taxa.

In addition to these protection mechanisms, the EIA process is supported by various guidance documents published by the Environmental Protection Authority (EPA), DBCA and the Department of Agriculture Water and Environment (DAWE).

Western Australia

- *Technical Guidance - Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment* (Environmental Protection Authority, 2020)
- *Guideline for the survey of arid bronze azure butterfly (ABAB) in Western Australia* (Department of Biodiversity Conservation and Attractions, 2020c)
- *Arid bronze azure butterfly (ABAB) survey in Western Australia additional information* (Department of Biodiversity Conservation and Attractions, 2020b).

Commonwealth

- *Matters of National Environmental Significance – Significant impact guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999* (Department of the Environment, 2013)
- *Matters of National Environmental Significance – Significant impact guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999* (Department of the Environment, 2013)
- *Conservation Advice: Ogyris subterrestris petrina Arid bronze azure (a butterfly)* (Threatened Species Scientific Committee, 2014).

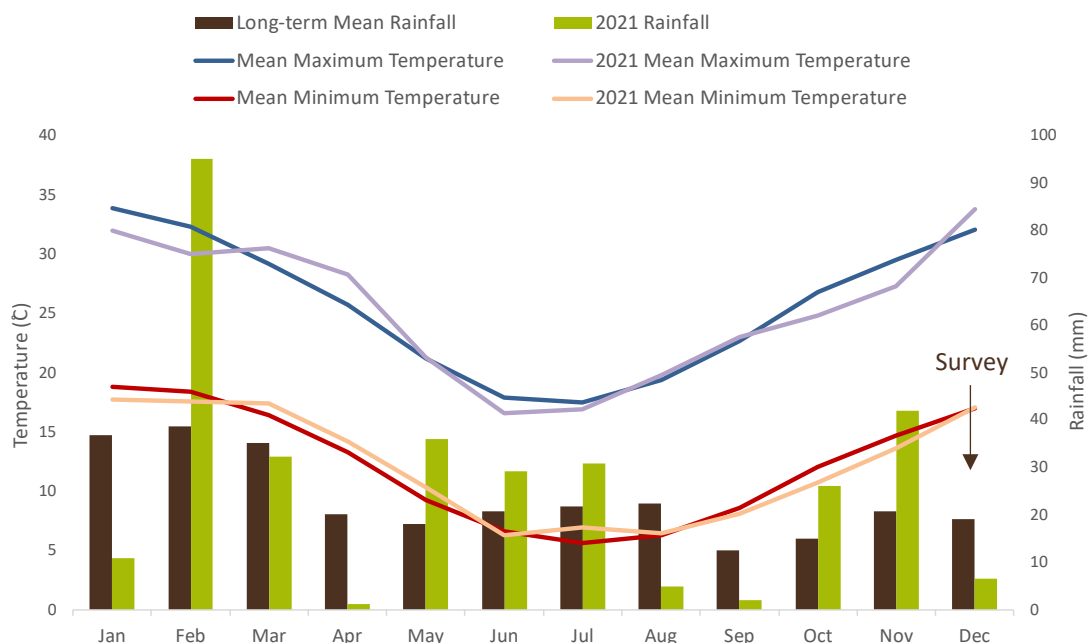
2.2 Existing Environment

2.2.1 Climate

The closest long-term Bureau of Meteorology weather station to the Survey Area with a complete temperature and rainfall dataset is Kalgoorlie-Boulder airport (Station 012038), located approximately 28 km Northeast of the Survey Area. Climate statistics were calculated utilising data from the most current climate normal, which is defined as a 30 year interval (Bureau of Meteorology, 2022), where possible. A climate normal is a period long enough to include year-to-year variations while avoiding the influence of longer-term changes in climate (Bureau of Meteorology, 2022).

The long-term mean minimum temperature for Kalgoorlie-Boulder Airport ranges from 5.6°C (July) to 18.8°C (January) (1991 to 2020) and the long-term mean maximum temperature ranges from 17.5 (July) to 33.9°C (January; **Graph 1**).

The Kalgoorlie-Boulder Airport weather station recorded 316.6 mm of rainfall in 2021, which is 35.4 mm above the long-term average of 281.2 mm (1991 to 2020; **Graph 1**). In the three months prior to the survey (September 2021 to November 2021), 70 mm of rainfall was recorded, which is 21.8 mm above the long-term average of 48.2 mm (**Graph 1**).



Graph 1: Long term (1991-2020) and 2021 total rainfall, maximum and minimum temperatures for Kalgoorlie-Boulder Airport weather station (Station 012038) (Bureau of Meteorology, 2021).

2.2.2 Environmentally Sensitive Areas

Environmentally Sensitive Areas (ESAs) are declared by the Department of Water and Environmental Regulation (DWER) to prevent the degradation of important environmental values such as Threatened flora, Threatened Ecological Communities (TECs) or significant wetlands.

The Survey Area does not occur within a mapped ESA. The nearest ESA is the Rowles Lagoon Conservation Park located approximately 52 km north-west of the Survey Area (Figure 1) (Department of Water and Environmental Regulation, 2020).

2.2.3 Conservation Areas

The Survey Area is not located within any listed conservation area (Figure 1) (Department of Biodiversity Conservation and Attractions, 2021). The nearest conservation area is the Kangaroo Hills Timber Reserve which is situated adjacent to the southwestern section of the Survey Area separated by Nepean Road.

3 Methods

3.1 Field Survey

3.1.1 Field Personnel

The survey was conducted by Dr Rod Eastwood and Dr Michael Lohr, where Michael has over eight years of experience conducting fauna surveys and wildlife research in WA with substantial experience in the Goldfields Region, including surveys for short range endemic invertebrates. Dr Eastwood is a Research Associate at the WA Museum who has extensive field and research experience with the ABAB and related butterflies with symbiotic relationships with ants (e.g. Eastwood et al. 2006; Eastwood & Fraser 1999). He has conducted surveys for the targeted ant species (*Camponotus* sp. nr. *terebrans*) at Barbalin NR and multiple other sites. During surveys in 2020 and 2021 he identified four additional colonies of the host ant. His previous surveys have significantly increased the known area of occupation of the targeted species.

3.1.2 Licence and Authorisation

Where applicable, specimens were collected under Fauna taking license FO25000042 issued to Dr Eastwood, Authorization to Take or Disturb Threatened Species (Fauna) license number TFA 2021-0077 issued to A. A. Williams (Dr Eastwood authorised), and Flora taking license FB62000354 issued to Dr Michael Lohr.

3.1.3 Targeted Survey for *Camponotus* sp. nr. *terebrans* and Arid Bronze Azure Butterflies

Field methods followed those described in the DBCA survey guidelines (Department of Biodiversity Conservation and Attractions, 2020b, 2020c). Potential ABAB habitat containing smooth-barked eucalypt species within the Survey Area was delimited prior to the survey using aerial imagery and observations during a previous visit to one portion of the Survey Area. A total of 1,055 ha of potentially suitable ABAB habitat was identified within the Survey Area (Figure 2).

The number and spacing of tree locations in potentially suitable ABAB habitat to be searched for *Camponotus* ant nests was determined using the following formula (Department of Biodiversity Conservation and Attractions, 2020c):

- No. sample trees: $10 \times \sqrt{(\text{site area in ha})} = 325 \text{ trees}$
- Spacing: $\sqrt{\frac{(\text{site area in ha} \times 10,000)}{(\text{No. sample trees})}} = 150 \text{ metres}$

Minor modifications to the grid of tree survey points were made and one additional point was added for a total of 326 tree survey points to ensure that all potentially suitable habitat was adequately covered.

Tree survey points were searched during walked transects. Multiple trees (up to ten or more) were inspected during the walk between tree survey points and in the immediate vicinity. A point was scored 'absent', and the GPS location recorded, if no *Camponotus* ant nests were

identified. A tree survey was scored 'present', and the following data collected if *Camponotus* ant nests were found at any tree in the vicinity of the tree survey point:

- GPS location
- Tree species
- Diameter at breast height (DBH)
- Soil type
- If inquiline¹ *Pogonoscopus* sp. were observed in the ant nest
- The numbers of any additional nests in the vicinity of the tree survey point
- Photographs of the tree, nest, and ants.

Reproductive structures from the host tree were also collected, where possible, for positive identification if nests were located.

GPS-enabled tablets loaded with base data including aerial imagery, Survey Area boundary, and the grid of preselected sites were used for navigation and data collection in the field. Garmin GPS units were used to record transect routes and distances travelled.

3.1.4 Opportunistic searches for *Jalmenus aridus*

While conducting targeted searches for *Camponotus* sp. nr. *terebrans* at the Three Mile Project site, habitat identified as suitable for *Jalmenus aridus* (P1, DBCA) was opportunistically inspected by Dr Eastwood, as three new populations of the species have recently been found north of Kalgoorlie.

3.1.5 Specimen Collection and Identification

Butterfly specimens were collected with a hand net and euthanized with ethyl acetate before placing in a glassine envelope and storing at 3°C until returning to Perth. Specimens were then prepared in accordance with WAM standard protocols, fully labelled, databased and deposited in the WAM Entomological collection.

Adult butterflies were tentatively identified in the field and confirmed with reference to Braby (2004) and to known *J. aridus* specimens in Dr Eastwood's collection at the Museum of Comparative Zoology, Harvard University (<https://mczbase.mcz.harvard.edu/>).

Ant specimens were preserved in 100% ethanol and taken to confirmed by Dr Brian Heterick at the Western Australia Museum for confirmation of identifications made in the field.

Tree and shrub species were identified by the WA Herbarium based on specimens collected in the field.

¹ An animal that exploits the living space of another

3.1.6 Weather Conditions

Weather conditions for the survey are presented in Table 2. Temperature and rainfall data is from Kalgoorlie-Boulder Airport weather station (Station 012038) (Bureau of Meteorology, 2021). Minimum temperatures during the survey were above the long-term average minimum temperature for December (12.2°C), and maximum temperatures during the survey were similar to the long-term average maximum temperature for December (25.7°C). A total of 6.4 mm of rainfall was recorded during December 2021, which is lower than the long-term median of 16.2mm.

Table 2: Targeted *Camponotus* sp. nr. *terebrans* Survey weather conditions

Date	Temperature (°C)		Rainfall (mm)	Max wind speed km/h
	Min	Max		
13/12/2021	12.0	29.8	0	41
14/12/2021	17.6	36.9	0	50
15/12/2021	15.1	34.4	0	57
16/12/2021	21.8	41.1	0	61

3.2 Limitations

Limitations and constraints of the targeted survey are detailed in Table 3.

Table 3: Limitations and constraints associated with the survey

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
Survey Scope	Not a constraint	A targeted survey for the ant <i>Camponotus</i> sp. nr. <i>terebrans</i> was undertaken in accordance with DBCA Guidance (Department of Biodiversity Conservation and Attractions, 2020b, 2020c) and was considered appropriate to support approvals applications.
Availability of Data	Not a constraint	All data required to complete the scope of works including regional and local contextual information was available.
Site Access	Not a constraint	The Survey Area was able to be accessed by vehicle and on foot.
Survey Intensity and Resources	Not a constraint	Survey intensity (number and spacing of trees) was determined by the formulae provided in DBCA guidance. The number of trees surveyed was consistent with the recommendations generated by the formulae for the area of potential habitat present in the survey area.
Experience	Not a constraint	The survey was conducted by Dr Rod Eastwood and Dr Michael Lohr. Dr Lohr has over eight years of experience conducting fauna surveys and wildlife research in WA including substantial experience in the Goldfields Region, including surveys for SRE invertebrates. Dr Eastwood is a Research Associate at the WA Museum who has extensive field and research experience with the

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
		ABAB and related butterflies with symbiotic relationships with ants (e.g. Eastwood et al. 2006; Eastwood & Fraser 1999). He has conducted surveys for the targeted ant species (<i>Camponotus</i> sp. nr. <i>terebrans</i>) at Barbalin NR and multiple other sites. During surveys in 2020 and 2021 he identified four additional colonies of the host ant. His previous surveys have significantly increased the known area of occupation of the targeted species.
Timing, weather, season	Not a constraint	Surveys for <i>Camponotus</i> sp. nr. <i>terebrans</i> may be conducted at any time of the year or time of day and are not substantially impacted by weather.
Life Forms Sampled	Not a constraint	The survey targeted one species of ant and was consistent with DBCA guidelines for this species. An additional priority species was opportunistically observed and collected during the survey. All taxa recorded were able to be identified with a high level of scientific confidence to species level.
Mapping Reliability	Not a constraint	Potential <i>Camponotus</i> sp. nr. <i>terebrans</i> habitat mapping prior to the survey was based largely on aerial imagery of the Survey Area and a previous visit to one portion of the Survey Area. Areas where uncertainty about habitat type was an issue were included as potential habitat to ensure that no areas of potential habitat went unsurveyed.
Disturbances (fire, flood etc.)	Not a constraint	No disturbances occurred during any of the surveys. Areas of disturbance associated with clearing, historic mining, and rubbish were not an impediment to the survey.
Completeness	Not a constraint	The survey was considered complete for a targeted ABAB survey. Staff appropriately surveyed the number of trees required by DBCA guidelines.

4 Results

4.1 *Camponotus* sp. nr. *terebrans* and Arid Bronze Azure Butterflies

Despite the presence of suitable smooth-barked eucalypt trees and areas of floristic diversity, no *C. sp. nr. terebrans* (ABAB ants) or Arid Bronze Azure Butterfly (*Ogyris subterrestris petrina*) were found within the Survey Area. One nest of another species of *Camponotus* ant was found at tree survey point 070 (Figure 3), but ants from the nest were positively identified on site as (*C. nigriceps*). Samples of these ants were collected, and the identification was subsequently confirmed by Dr Brian Heterick at the Western Australia Museum.

4.1.1 Site Condition and Suitability

There were several ridges and topological undulations across the site that were dissected by dry creek beds opening onto seasonally dry shallow valleys and sheet flood plains. The soil substrate across most of the elevated areas was rocky and compacted, particularly along ridge lines. Habitat along many of the ridges was consistent with habitat at the type locality of ABAB at Lake Douglas; however, in lower areas the drainage was poor and most of the sandy soil had become compacted.

There is clear evidence that the site has been heavily disturbed during a long history of prospecting and mining within the Survey Area as is evident by numerous open mine shafts, mounds of overburden, tailings dumps, topsoil stockpiles, and litter associated with historic mining camps and operations. The site is also widely dissected by modern mining pits and infrastructure, access roads, haul roads and many smaller tracks, as well as the Great Eastern Highway, the Coolgardie-Esperance Highway, and the remains of a narrow-gauge railway.

The high levels of disturbance and the rocky substrate do not preclude *C. sp. nr. terebrans* from being present at the site even though it is now known that the type locality site, which shares similar characteristics with this Survey Area, was atypical.

4.2 *Jalmenus aridus*

A total of 16 *Jalmenus aridus* adults (Plate 1) were identified at three locations within the Survey Area, one location near tree survey point 297 and two locations near tree survey point 274 (Figure 4; Table 4). The locations were in the south-western corner of the Survey Area (~4 km south of Coolgardie) and separated by approximately 500 m. No butterfly early stages nor any evidence of feeding damage or remains of the exoskeletons of *J. aridus* pupae were found.

Tree survey point 297 is in a sandy flood plain bordered with many *Senna artemisioides filifolia* plants that extend up the slopes on either side (Plate 2).

Tree survey point 274 is situated on a rocky ridge at the shallow head of an eroded creek-line with scattered *Senna artemisioides filifolia* plants growing along the creek line (Plate 3). This site represents a previously unrecorded habitat type for *J. aridus*. Butterflies were observed flying around *Eremophila alternifolia* and other flowering shrubs. Several of these plants were

inspected for the presence of *Froggattella kirbii* ants, which are known to associate with *J. aridus*, but only a small unidentified black ant was found.

Three *J. aridus* adults were collected for positive identification. Butterflies collected were lodged in the WAM as voucher specimens and as primary evidence for a new population within the Survey Area (Table 4).



Plate 1: *Jalmenus aridus* observed within the Survey Area



Plate 2: Habitat present at tree survey point 297



Plate 3: Habitat present at tree survey point 274

Table 4: *Jalmenus aridus* collected at Focused Minerals Ltd., Three Mile Project site at Coolgardie by R. Eastwood and M. Lohr in December 2021

WAM voucher	Date	Latitude	Longitude	Sighted	Collected
E113097	15 Dec 2021	-30.987295	121.164944	1 F	1 F
E113098	16 Dec 2021	-30.983250	121.166345	8 M	1 M
E113099	16 Dec 2021	-30.983693	121.166852	2 F, 2 M	1 F

5 Discussion

5.1 *Camponotus* sp. nr. *terebrans* and Arid Bronze Azure Butterflies

The ABAB was identified as potentially occurring the Survey Area in a flora and fauna desktop review conducted for a previous fauna survey (360 Environmental Pty Ltd 2022 (in prep)). Potentially suitable habitat containing smooth-barked eucalypts was observed during in the subsequent field survey (360 Environmental Pty Ltd 2022). The ABAB is listed as Critically Endangered under the *Biodiversity Conservation Act* 2016 and the Commonwealth *Environment Protection and Biodiversity Conservation Act* 1999 due to their geographic distribution and low estimated number of mature individuals (Threatened Species Scientific Committee, 2014). Detailed survey guidelines were published in September 2020 (Department of Biodiversity Conservation and Attractions, 2020b, 2020c).

Until recently, only two extant populations of ABAB are known, one at Barbalin Nature Reserve, Muckinbudin in the northern Avon Wheatbelt (Gamblin, Williams, Williams, & Richardson, 2009), and a second site approximately 100 km from Barbalin (Department of Biodiversity Conservation and Attractions, 2020a). Both sites are approximately 300 km west of the Survey Area at Coolgardie. In October 2021, two additional sites were discovered just north of Kalgoorlie (both by R. Eastwood). The type locality for ABAB is at Lake Douglas, 19-28 km north-east of the Survey Area; however, the butterfly and its host ant are now extinct at this location.

The butterfly is difficult to survey for, as adults are present for only a few weeks each year and may disperse through habitat unsuitable for breeding. Caterpillars of the ABAB are known to live only within the nests of an undescribed species of sugar ant (referred to as *Camponotus* sp. nr. *terebrans*), where they eat the ants' early stages and/or are fed by the ants. The ant nests may also be inhabited by leaf hoppers (*Pogonoscopus* spp. (Cicadellidae)), which the ants protect and in return feed on the anal excretions (honeydew) of the leaf hoppers. The ants are associated with smooth-barked eucalypt woodlands on sandy soil, but at the type locality for ABAB, the ants were found in rocky substrate along a ridge line (Rod Eastwood pers. obs.). Furthermore, *C. sp. nr. terebrans* ants are often found in disturbed sites (Field, 1999; McArthur, Adams, & Shattuck, 1997).

DBCA recommends surveying first for the ant and only looking for the butterfly at sites with large colonies of the host ant that could support an ABAB sub-population. Ant survey guidelines include a map of potential habitat for the host ant in WA, which includes large areas of woodland across the State (Department of Biodiversity Conservation and Attractions, 2020c). All significant *Camponotus* sp. nr. *terebrans* colonies are assumed to be critical habitat for ABAB. The presence of ABAB in an ant colony is dynamic, since ABAB can disperse across the landscape and become established at new ant colonies, while existing colonies can decline over time.

5.1.1 Survey Outcomes

No *C. sp. nr. terebrans* (ABAB ants) or Arid Bronze Azure Butterflies (*Ogyris subterrestris petrina*) were found within the Survey Area. Areas with sandy substrate where *C. sp. nr. terebrans* is typically located were poorly drained and compacted, reducing their suitability.

The meat ant *Iridomyrmex purpureus* was found to be widespread and common across the majority of the Survey Area. This is very likely a contributing factor to the absence of *C. sp. nr. terebrans*, particularly in what is likely a marginal habitat for the *C. sp. nr. terebrans* ant. Only one nest of the related species, *C. nigriceps*, was found at tree survey point 070, but these ants are larger than *C. sp. nr. terebrans* and their nest architecture makes them less vulnerable to attacks from *I. purpureus*. *Camponotus nigriceps* is not associated with the ABAB.

5.2 *Jalmenus aridus*

The Inland Hairstreak, *Jalmenus aridus*, is listed as Priority 1 under the Biodiversity Conservation Act 2016 and, until recently, was only known from its type locality at Lake Douglas, approximately 12 km SW of Kalgoorlie. It was discovered in November 1983 breeding on a single *Acacia tetragonophylla*, but soon after its discovery the tree started to die, and the butterflies disappeared. Over the following decade, additional surveys resulted in collections of several specimens on a second *A. tetragonophylla* nearby, and a few specimens from a *Senna nemophilla* (= *S. artemisioides filifolia*) less than one km from the original tree (Williams, Williams, & Lundstrom, 1998). The last sighting of *J. aridus* at Lake Douglas was in 1999 (P. Samson pers. comm. 2021). A single specimen was found at Ngaanyatjarra approximately 460 km NE of Laverton in 1987 (ALA, 2022). Three additional populations of the species have recently been found north of Kalgoorlie. Most specimens have been recorded/collected in October or November, but there are a few records from mid-January and April.

Jalmenus aridus has a mutualistic association with the ant *Froggattella kirbii*. The butterfly larvae feed on the flowers and/or leaves of their host plant while the ants are in constant attendance. The larvae produce sweet secretions containing amino acids and sugars which the ants consume (Maschwitz, Margarete, & Schurian, 1975; Pierce, 1988). In return, the presence of the ants protects the butterfly larvae from parasitoids and predators. Larvae do not survive in the absence of their attendant ants (Pierce, 1988).

There are no guidelines for *J. aridus* surveys since it is difficult to predict when and where they might occur. Their attendant ant species has a wide but patchy distribution throughout open woodland areas across most of Australia (Shattuck, 1999) so the presence of ants cannot predict the likely presence of the butterfly, as is the case with ABAB and *C. sp. nr. terebrans*. The *J. aridus* host plant, *Senna artemisioides filifolia*, also has a distribution that covers most of WA and the distribution of their *Acacia tetragonophylla* host plant is even broader (Western Australian Herbarium, 2021). Furthermore, appearance of *J. aridus* adults – and other butterflies within the same genus – is highly irregular and strongly impacted by variation in local environmental conditions (Sands & New, 2002). The difficulty in surveying for this species as well as the limited

understanding of its habitat selection and timing of the emergence of adults likely all contribute to the lack of records of *J. aridus* outside of its type locality until recently.

5.2.1 Survey Outcomes

Jalmenus aridus adults were found at two sites within the Survey Area.

The environmental conditions at tree survey point 297 are similar to other known sites for *J. aridus*; however, no *Froggattella kirbii* ants were found. It is also possible that this subpopulation extends further up the creek line and outside the Survey Area across Nepean Road.

Although no *F. kirbii* were found at tree survey point 274, an unidentifiable ant was seen attending scale insects and leaf hoppers on the *Senna artemisioides filifolia* plants. It is unclear whether this unidentified ant has a relationship with *J. aridus*. If mutualisms exist between *J. aridus* and additional ant species, its suitable habitat may be more extensive than currently documented.

Determining the extent of *J. aridus* populations within the Survey Area was outside of the scope of this project, however, aerial imagery suggests that similar habitat to the locations where it was observed is abundant in vicinity of the Survey Area. These habitats appear to extend into land under conservation tenure in adjacent portions of the Kangaroo Hills Timber Reserve.

6 Conclusion

- No ABAB host ants (*Camponotus* sp. nr. *terebrans*) or Arid Bronze Azure Butterflies (*Ogyris subterrestris petrina*, CR, DBCA EPBC) were found within the Survey Area despite a comprehensive search.
- It is unlikely that the ABAB ants could colonise the marginal habitat within the Survey Area in the foreseeable future due to the presence of large numbers of *Iridomyrmex purpureus* ants.
- Adult Inland Hairstreak butterflies (*Jalmenus aridus*, P1, DBCA) were observed at three locations within the Survey Area.
- The observation of *J. aridus* at sites approximately 500 m apart was unexpected, but it is an important addition to the known populations of this Priority 1 listed species. The discovery of *J. aridus* in habitat which is substantially different to habitat used by its other known populations suggests its distribution may be larger than currently documented.

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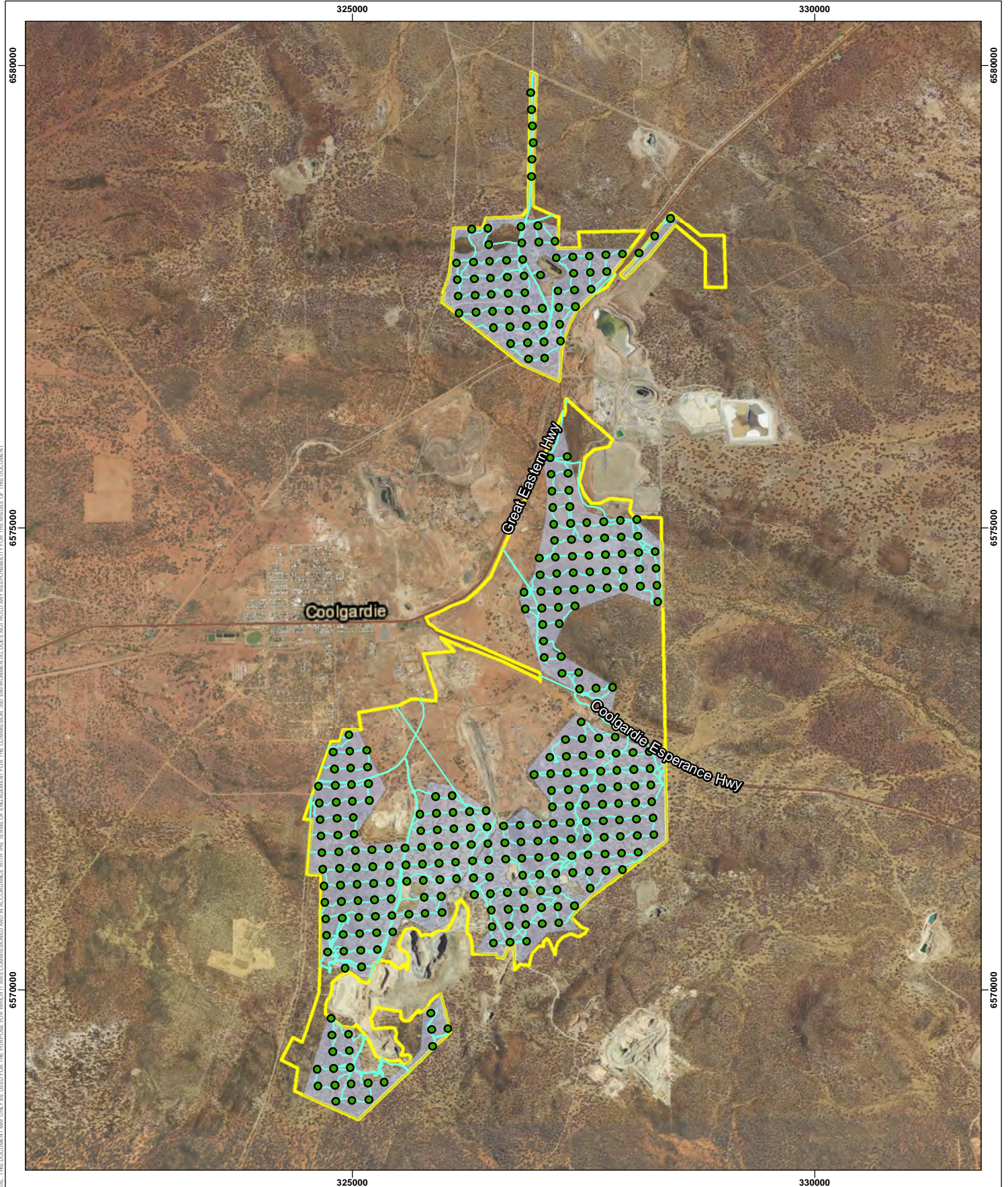
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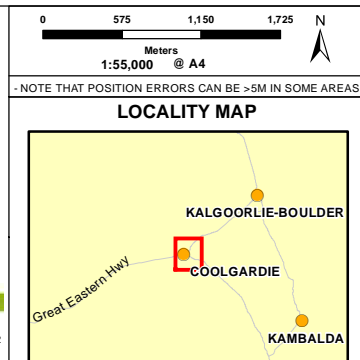
Figures



Legend

-  Survey
-  Potential *Camponotus* sp. nr. *terebrans*
-  GPS Tracks
-  Tree Sample Points

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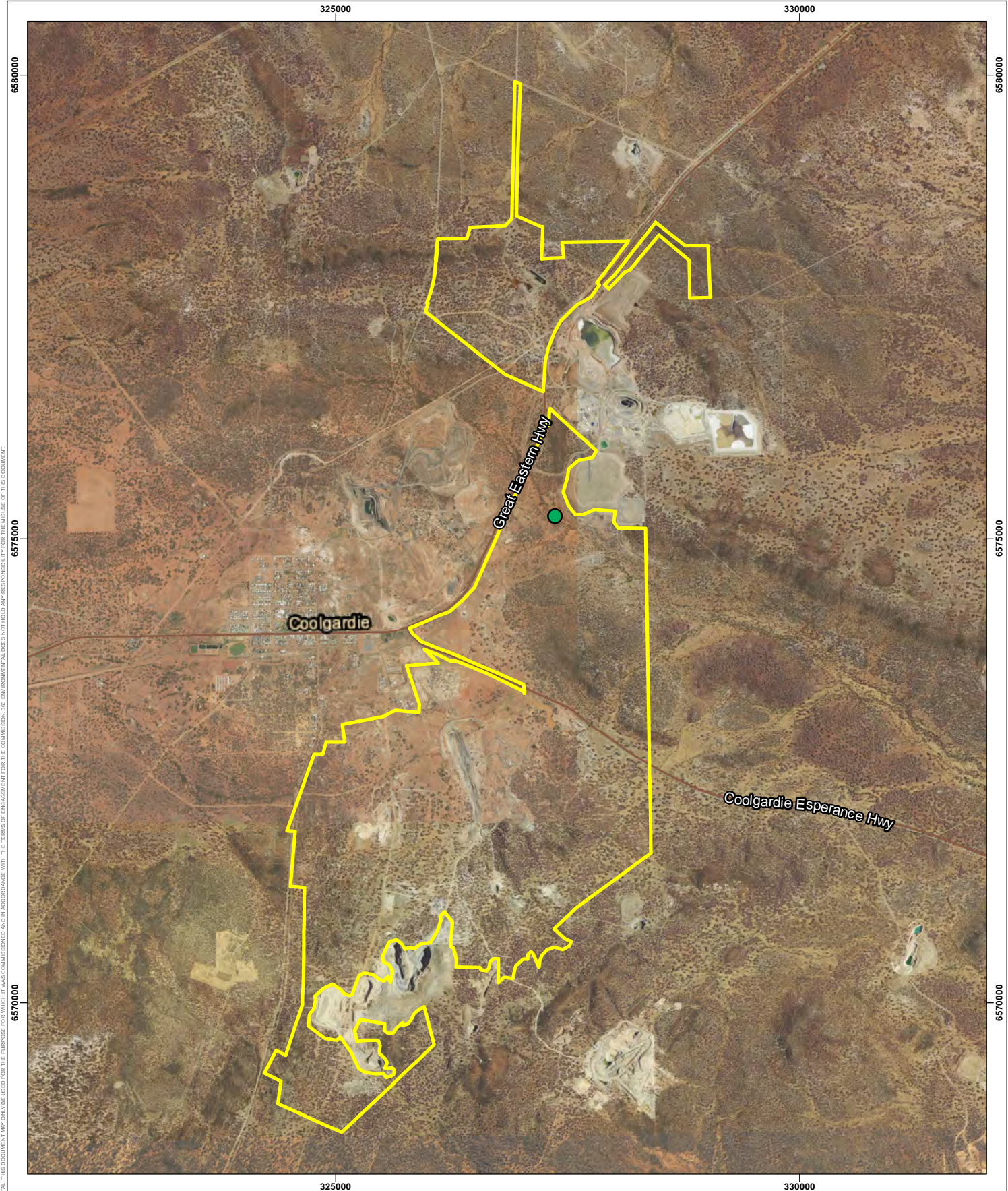
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HORIZONTAL DATUM AND PROJECTION			
GDA2020 MGA Zone 51			
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Focus Minerals Limited
Coolgardie

Coolgardie *Camponotus* sp. nr. *terebrans* Targeted Survey

Figure 2
Potential ABAB Habitat and Survey Effort

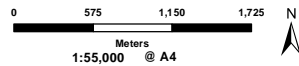
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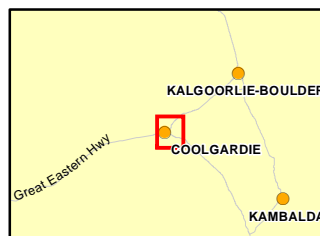
- Survey Area
- Camponotus nigriceps* Nest (Not Associated with Significant Butterflies)

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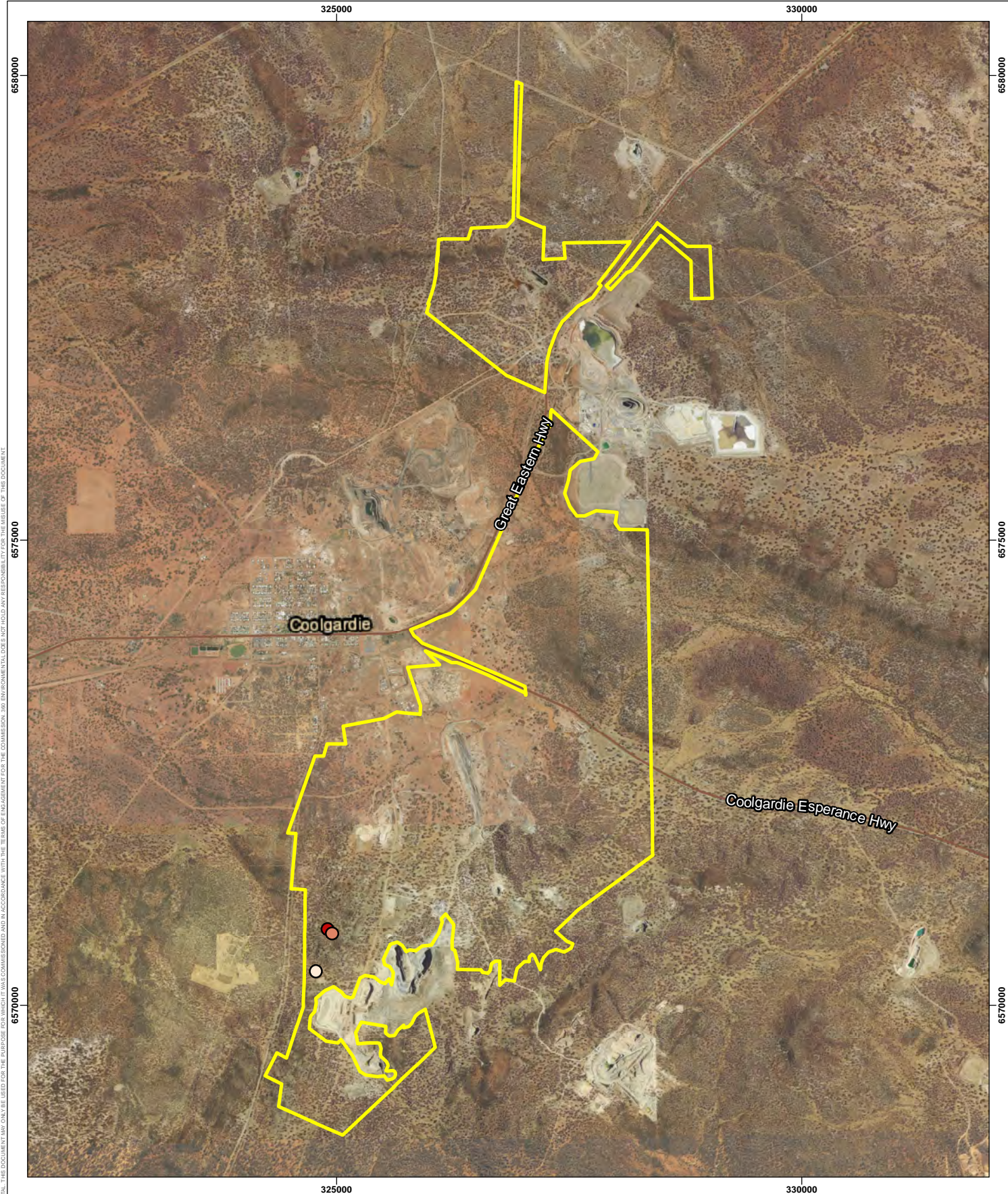
HORIZONTAL DATUM AND PROJECTION GDA2020 MGA Zone 51			
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Coolgardie

Coolgardie *Camponotus* sp. nr.
terebrans Targeted Survey




Figure 3
***Camponotus nigriceps* Nest**



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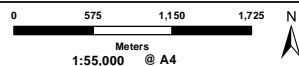
 Survey Area

Inland Hairstreak (*Jalmenus aridus*) Locations

-  Observed Number: 2
-  Observed Number: 5
-  Observed Number: 9

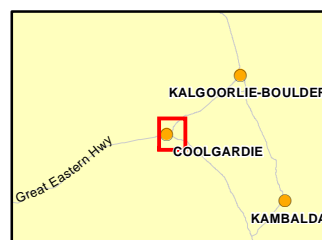
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Focus Minerals Limited
Coolgardie
Coolgardie *Camponotus* sp. nr. *terebrans* Targeted Survey

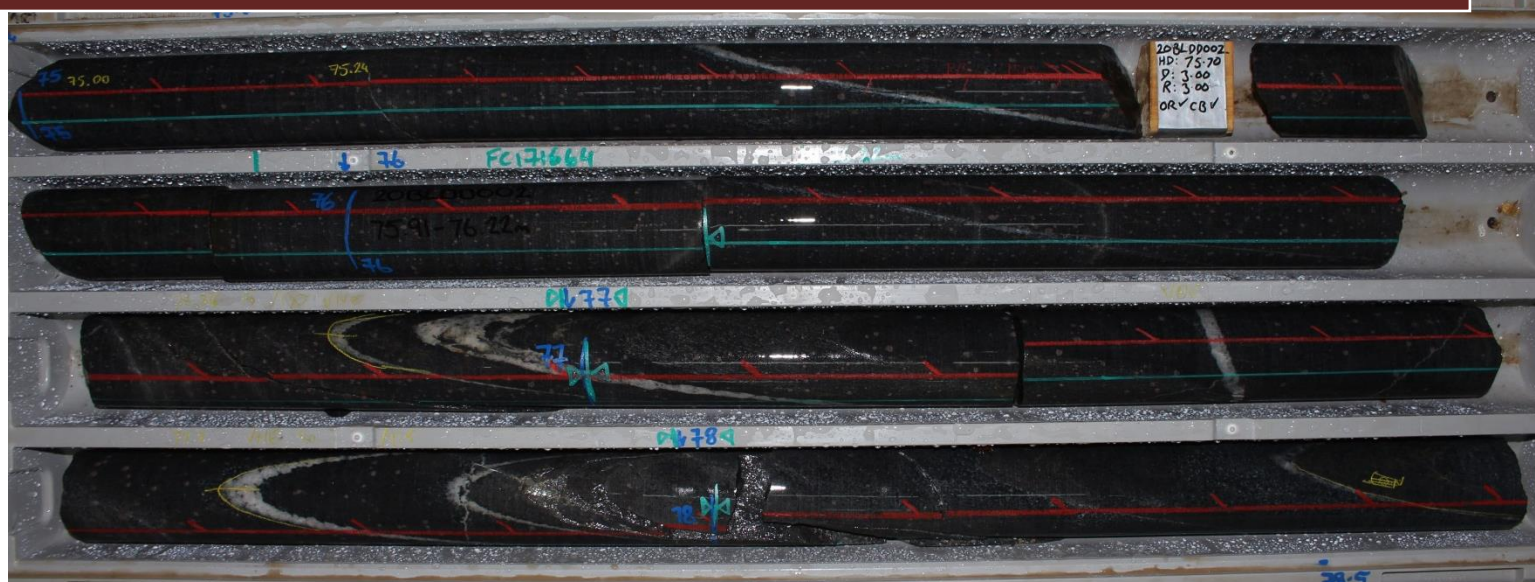
Figure 4
Inland Hairstreak (*Jalmenus aridus*)
Locations and Numbers Observed Nest



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Desktop assessment for subterranean fauna for the Coolgardie Gold Project – Alicia, Big Blow, Bonnievale, Brilliant, CNX, Greenfields and Happy Jack Deposit Areas, Coolgardie, Western Australia



Report by *Invertebrate Solutions Pty Ltd*
for 360 Environmental Pty Ltd on
behalf of Focus Minerals Ltd.

May 2022

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Report Number 2022ISJ03_F01_20220519

Prepared for: Focus Minerals Ltd

Frontispiece: Diamond core photo of mafic volcanics.

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Contents

Executive Summary	v
1. Introduction	1
1.1 Purpose of this report	1
1.2 Desktop Study Area, Project Areas and Background Environmental Information	3
1.3 Documents examined	4
1.4 Conservation Legislation and Guidance Statements	4
1.5 Classifications of subterranean dependence	6
1.6 Report Limitations and Exclusions	7
1.7 Assumptions and Limitations	7
2. Desktop Methods.....	8
3. Desktop Subterranean Fauna Review	9
3.1 Subterranean fauna in the Yilgarn	9
3.2 Conservation Significant Fauna and Habitats	9
3.3 Subterranean Fauna Habitat in the Coolgardie Area	10
3.4 Likelihood of stygofauna presence	12
3.5 Likelihood of troglafauna presence	14
4. Conclusions and Recommendations	16
5. References	17
Appendix 1	
DBCA Conservation Categories	
Appendix 2	
Protected Matters Search Results	

List of Figures

Figure 1	Coolgardie Gold Project – Alicia, Big Blow, Bonnievale, Brilliant, CNX, Greenfields and Happy Jack deposit Areas, Coolgardie Project subterranean fauna desktop study area.	2
----------	---	---

List of Tables

Table 1	Geological units in the Coolgardie area and Subterranean fauna habitat potential.	11
---------	---	----

List of Plates

Plate 1	Coolgardie long term climate data (After BOM.gov.au).	4
Plate 2	Flowchart of the process for undertaking subterranean fauna assessments for impact assessment in Western Australia (EPA 2021).	5
Plate 3	Mafic (upper) and granitic (lower) core (BONDD068) from the Bonnievale Project Area showing no fracturing at depth that would provide potential habitat for stygofauna.	11
Plate 4	Ultra mafic rock from the Brilliant Project area showing no fracturing at depth that would provide potential habitat for stygofauna.	12
Plate 5	Ultra mafic and pegmatitic rock from the Greenfield Project area showing no fracturing at depth that would provide potential habitat for stygofauna.	13
Plate 6	Ultra mafic rock from the CNX Project area showing no fracturing at depth that would provide potential habitat for stygofauna.	13
Plate 7	Mafic rock with quartz veins from the Big Blow Project area showing no fracturing at depth that would provide potential habitat for stygofauna.	13
Plate 8	Clay dominated non-saturated zones in the Bonnievale area shows Low or Nil troglofauna habitat potential.	14
Plate 9	Clay dominated non-saturated zones in the CNX area shows Low or Nil troglofauna habitat potential.	14

Executive Summary

The Coolgardie Gold Project – Alicia, Big Blow, Bonnievale, Brilliant, CNX, Greenfields and Happy Jack deposit Areas, Coolgardie (the Project) is located, in the Goldfields region of Western Australia. The proponent, Focus Minerals Ltd (Focus), proposes to recommence existing historical mining operations with ore processed at existing facilities.

Invertebrate Solutions has been requested by Focus to undertake a desktop assessment for subterranean fauna (stygo fauna and troglo fauna) for the seven Project areas. Searches of the Western Australian Museum databases for Crustaceans and Arachnids/Myriapods were undertaken for a rectangular area approximately 250,000 ha, centred on Coolgardie townsite.

The Project is within the Norseman-Wiluna Greenstone Belt of the Eastern Goldfields Province which is largely covered in shallow colluvium and alluvium. The colluvium and alluvium lithologies surrounding and within much of the Project area have a low suitability for both troglo fauna and stygo fauna habitat due to the absence of interconnected voids in these fine grained units. The ultramafics and other volcanics are generally considered to be poor habitat for troglo fauna or stygo fauna unless they are highly fractured locally. The intrusive granitoids are also considered to have poor subterranean fauna suitability due to a general absence of interconnected voids unless they are highly locally fractured. Examination of diamond drill core from the seven Project areas has shown fracturing to be absent in the most part, or minor and provides little opportunity for subterranean fauna.

The absence of stygo fauna and troglo fauna records from the Coolgardie and Kalgoorlie area would suggest that stygo fauna habitat, and therefore subterranean fauna is generally absent or present in very low abundance, although it is unknown what sampling intensity has previously been undertaken, and it may be due to a paucity of sampling. It is however reasonable to conclude that subterranean fauna have a low likelihood of occurrence within the Project areas, when considering the absence of potential voids and cracks and the hypersaline nature of the groundwater.

No further survey work for stygo fauna or troglo fauna is necessary in order to meet the Technical Guidance – Subterranean Fauna Surveys for Environmental Impact Assessment (EPA2021).

1. Introduction

The Coolgardie Gold Project – Alicia, Big Blow, Bonnievale, Brilliant, CNX, Greenfields and Happy Jack deposit Areas, Coolgardie (the Project) is located, in the Goldfields region of Western Australia. The proponent, Focus Minerals Ltd (Focus), proposes to recommence existing historical mining operations with ore processed at existing facilities.

Invertebrate Solutions has been requested by Focus to undertake a desktop assessment for subterranean fauna (stygo fauna and troglotauna) for the Coolgardie Gold Project areas.

Subterranean fauna are comprised of stygo fauna (aquatic subterranean dependent species) and troglotauna (air breathing subterranean dependent species), which are known to form a subterranean faunal biodiversity hotspot on a worldwide scale in the Pilbara and Yilgarn cratons of Western Australia (Guzik et al. 2010). Over 4,000 species of subterranean fauna are likely to occur in Western Australia (Guzik et al. 2010), and it is estimated that over 80% of these taxa remain unknown to science. Subterranean fauna are also known to play an important role in ecosystem function (Humphreys 2006). Many species of subterranean fauna have highly restricted ranges, and can be considered short range endemics (*sensu* Harvey 2002), sometimes as a result of highly restricted ranges due to habitat connectivity issues and evolutionary history. Stygo fauna and troglotauna are known to occur widely in much of Western Australia with many locally endemic species present.

The high degrees of local endemism and lack of habitat connectivity make subterranean fauna susceptible to impacts from localised projects (Ponder & Colgan 2002), with species' extinction a real possibility if they are not adequately considered during project planning phases.

1.1 Purpose of this report

Focus has requested Invertebrate Solutions to undertake the following scope of works for the Project:

- Undertake a desktop review for stygo fauna and troglotauna presence.
- Undertake a risk assessment for impacts to stygo fauna and troglotauna from the proposed development.
- Provide recommendations to minimise potential impacts and any suggested requirements for further work to comply with relevant legislation.
- Provide a written report containing the above items.

FIGURE TO BE REPLACED WITH THE HI RESOLUTION PDF IN THE FINAL DOCUMENT

Figure 1 Coolgardie Gold Project – Alicia, Big Blow, Bonnievale, Brilliant, CNX, Greenfields and Happy Jack deposit Areas, Coolgardie Project subterranean fauna desktop study area.

1.2 Desktop Study Area, Project Areas and Background Environmental Information

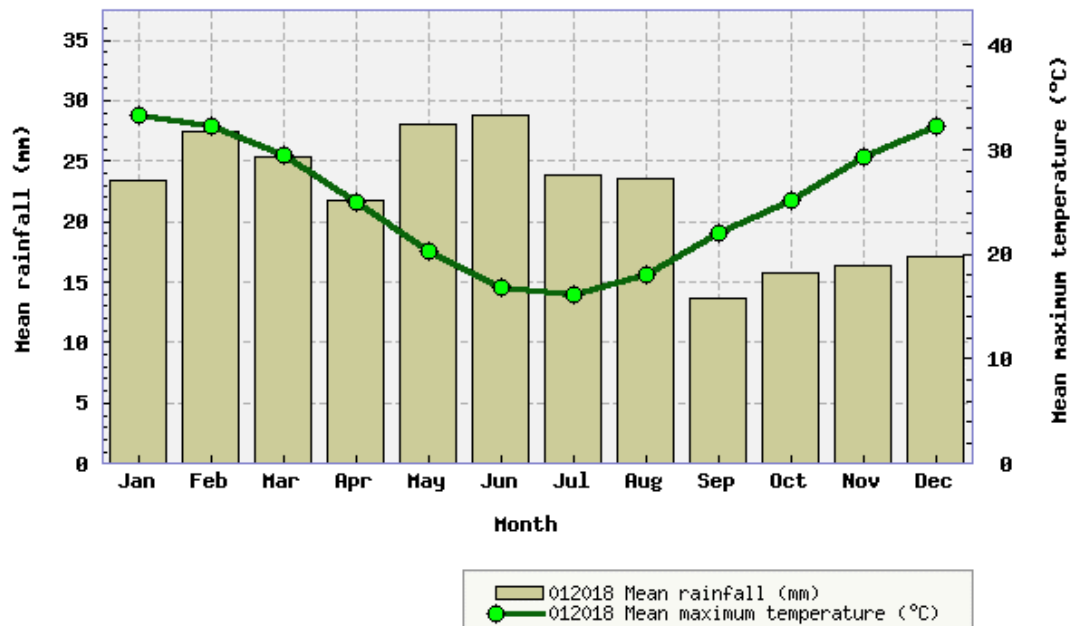
The Project areas are centred around the Coolgardie townsite, in the Goldfields region of Western Australia and shown in Figure 1. The seven separate areas comprising the Project are the Alicia, Big Blow, Bonnievale, Brilliant, CNX, Greenfields and Happy Jack deposit areas

The Desktop Study area is rectangular and consists of sides approximately 50 km in length (~250,000 Ha), bounded by the north west corner (30.677928°S, 120.908854°E) and the south east corner (31.153665°S, 121.417397°E). The study area is centred on the project and was used for the purposes of database searches and relevant literature (Figure 1).

The Interim Biogeographic Regionalisation of Australia (IBRA) classifies Australia's landscapes into 89 large geographically distinct bioregions based on common climate, geology, landform, native vegetation, and species information (DAWE 2022). The Project is located within the Coolgardie (IBRA) bioregion, which has an arid to semi-arid warm Mediterranean climate. The bioregion is characterised by Mallees and low scrub on sandplains with lateritised uplands, playas and granite outcrops. Eucalyptus woodlands contain diverse and endemic species on low greenstone hills, valley alluvials and broad plains of calcareous earth. In the west, the scrub is rich in endemic Proteaceae, while in the east they are rich in endemic Acacia species. Drainage is internal to playas and salt lakes (Environment Australia 2000).

The land tenure for the Project area consists of pastoral Crown and Unallocated Crown Land and the localised climate is classified as warm and temperate with an average annual rainfall of 269 mm recorded at the Bureau of Meteorology (BoM) Station 12018 in Coolgardie (BoM, 2022), which is located centrally within the Desktop Study area. Annual rainfall is highly variable, but with the majority of rainfall occurring during the late summer through to winter months linked to both cyclonic events (January to March) and southern fronts (April – August) (Plate 1).

Location: 012018 COOLGARDIE



Australian Government
Bureau of Meteorology

Plate 1 Coolgardie long term climate data (After BOM.gov.au).

1.3 Documents examined

The following documents have been examined in the compilation of this report, along with other referenced scientific papers used to provide general background:

- Kern, A.M. (1995). Hydrogeology of the Kalgoorlie 1:250,000 sheet. Geological Survey of Western Australia, Department of Minerals and Energy. Hydrogeological Series Explanatory Notes, 16p.

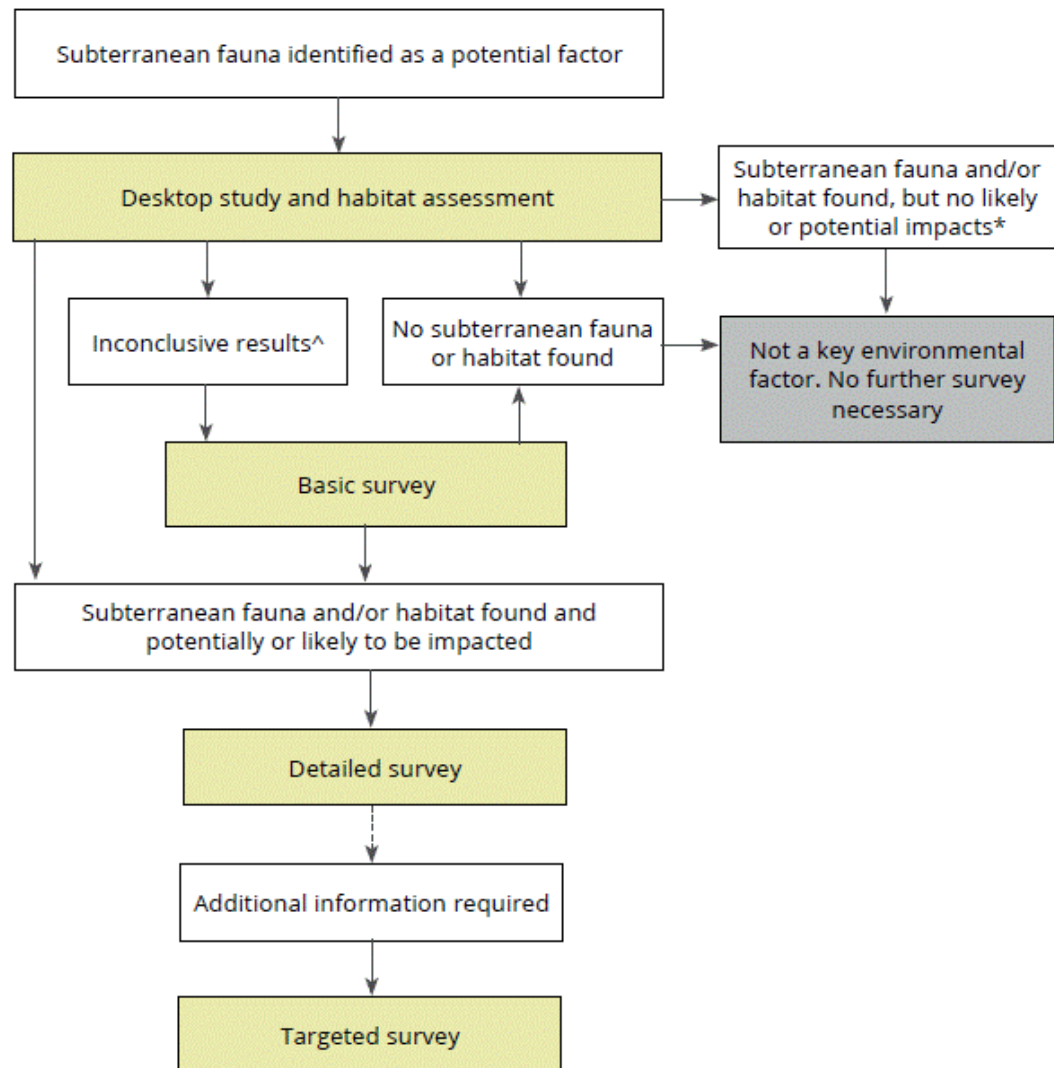
This report has been prepared with regard to the Technical Guidance – Subterranean Fauna Surveys for Environmental Impact Assessment (EPA2021).

1.4 Conservation Legislation and Guidance Statements

Subterranean fauna are protected under state legislation via the newly enacted *Biodiversity Conservation Act 2016* (BC Act) which came into force on 1st January 2019, replacing the *Wildlife Conservation Act 1950* (WC Act). The new BC Act is aligned with the federal *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The assessment of subterranean fauna for environmental impact assessment (EIA) is undertaken in Western Australia with regard to the Technical Guidance – Subterranean Fauna Surveys for Environmental Impact Assessment (EPA2021). A summary flowchart of the assessment process for subterranean fauna is shown in Plate 2.

At the State level, the BC Act provides a list of species that have special protection as listed under Part 2 of the BC Act, 2016. This notice is updated periodically by the Department of Biodiversity, Conservation and Attractions (DBCA) (formerly the Department of Parks and Wildlife (DPaW)) and the current list (November 2019) includes numerous subterranean species mainly from the Cape

Range and Pilbara regions. Included in the list are crustaceans, arachnids and myriapods that are considered to be “rare or likely to become extinct, as critically endangered fauna, or are declared to be fauna that is in need of special protection” (DPaW 2015). In addition to the specially protected fauna, DBCA also maintains a list of Priority fauna that are considered to be of conservation significance but do not meet the criteria for formal listing under the BC Act. The Priority fauna list is irregularly updated by DBCA and, although it offers no formal legislative protection, these species are generally considered in the EIA process.



* Depending on the likely scale and nature of the proposal impacts

^ Go direct to Detailed survey if preferred

Plate 2 Flowchart of the process for undertaking subterranean fauna assessments for impact assessment in Western Australia (EPA 2021).

The *BC Act* now provides the ability for the state government of Western Australia to formally list Threatened Ecological Communities (TECs), along with threatening processes. Several subterranean ecological communities are recognised as Threatened including the Bundera Cenote Anchialine community on Cape Range, Cameron's Cave near the townsite of Exmouth on Cape Range, stygal root mat communities in both the Yanchep and Margaret River regions and stygobionts in the Ethel Gorge aquifer in the Pilbara.

The federal *EPBC Act* protects both species and ecological communities. The most relevant listings for subterranean fauna include the Bundera Cenote on the western side of the Cape Range which contains a unique anchialine ecosystem including the stygal Cape Range Remipede *Kumonga exleyi* (Yager and Humphreys 1996) that is listed as Vulnerable. The Cape Range gudgeon *Milyeringa veritas* and the Cape Range blind eel *Ophisternon candidum* (Humphreys 2008) are also listed as Vulnerable species from subterranean habitats on the Cape Range. No EPBC listed subterranean species occur in the Goldfields region.

1.5 Classifications of subterranean dependence

Subterranean fauna is a collective term that refers to both troglofauna (terrestrial subterranean fauna inhabiting air voids) and stygofauna (aquatic subterranean fauna) (Humphreys 2000). Extensive amounts of jargon has historically been associated with subterranean fauna and multiple forms of classification have been used through time (Sket 2008). The most commonly accepted classifications divide troglofauna into categories that describe a particular species' degree of dependence upon the subterranean environment. Due to the reliance upon ecological information to determine if a species is a troglobite, the concept of troglomorphy (Christiansen 1962), specific morphological adaptations to the subterranean environment, is used to define obligate subterranean species. The term troglomorphy, initially confined to morphology, has since been used to describe both morphological or behavioural adaptations (Howarth 1973). This combination provides a practical system, easily applied in the field and requires minimal detailed ecological studies (Sket 2008). The level of subterranean dependency for different ecological groupings is described below:

- Troglobiont: animals that are obligate subterranean species, and mostly show morphological adaptation to subterranean habitats (troglomorphisms) including depigmentation, loss or reduction of eyes, elongation of appendages, flightlessness or wing reduction, and extra sensory hairs.
- Troglophiles: animals that can complete their entire lifecycle within a cave but possess no specific adaptations to the cave environment. These species are capable of living outside caves in suitably dark and moist epigean habitats.
- Troglonexes: animals that use the subterranean environment but require surface environments to complete part of their lifecycle (generally either feeding or breeding). Common troglonexes are cave dwelling bats, cave swiftlets and cave crickets that leave subterranean habitats to feed.

The terms above refer to stygofauna when the prefix is altered to stygo (Humphreys 2000).

Species which inhabit the deep soil habitat (Edaphophiles) often exhibit convergent morphological adaptations to those animals found exclusively within caves, such as loss/reduction of eyes, body

flattening, loss of pigmentation etc. Soil dwelling species typically lack restrictions in distribution, as these organisms have experienced relatively minimal isolation in evolutionary timeframes, thus, only true troglobitic animals are studied in subterranean fauna surveys. Taxa discussed in this study were assessed upon their combination of loss/reduction of eyes, and reduction in pigmentation, wing development, and elongation of appendages to assess if a taxa was an edaphophile or truly reliant upon the subterranean habitat (Troglobiont).

1.6 Report Limitations and Exclusions

This study was limited to the written scope provided to the client by Invertebrate Solutions (24th February 2021) and in Section 1.1. This study was limited to the extent of information made available to Invertebrate Solutions at the time of undertaking the work. Information not made available to this study, or which subsequently becomes available may alter the conclusions made herein.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. Invertebrate Solutions has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by Invertebrate Solutions described in this report (this section and throughout this report). Invertebrate Solutions disclaims liability arising from any of the assumptions being incorrect.

Invertebrate Solutions has prepared this report on the basis of information provided by Focus Minerals Ltd, 360 Environmental Pty Ltd and others (including Government authorities), which Invertebrate Solutions has not independently verified or checked beyond the agreed scope of work. Invertebrate Solutions does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

Site conditions may change after the date of this report. Invertebrate Solutions does not accept responsibility arising from, or in connection with, any change to the site conditions. Invertebrate Solutions is also not responsible for updating this report if the site conditions change.

1.7 Assumptions and Limitations

Invertebrate Solutions has made the following assumptions in the writing of this report and its subsequent conclusions:

- No significant dewatering will be required for the mining proposal and operations will not impact the regional watertable.
- Existing borefield(s) and water allocations will be sufficient for construction and process water.

2. Desktop Methods

The subterranean fauna desktop review comprises:

- An assessment of the likelihood that subterranean species are present in the habitats located within the study area.

The likelihood of stygofauna and troglafauna species occurring in the study area was assessed using a combination of regional information, geological, hydrogeological and database searches including:

- Analysis of published and unpublished reports concerning subterranean fauna from the region.
- Available geological maps.
- Geological, geotechnical and hydrogeological information available for the Study area.
- Results of a Protected Matters Search from the Commonwealth Department of Agriculture, Water the Environment (DAWE) website.
- Records of fauna held by the Western Australian Museum.

Based on the analysis of all available information the study area was assigned a level of likelihood to support subterranean fauna of either 'Low', 'Moderate', 'High', or 'Definite'.

3. Desktop Subterranean Fauna Review

3.1 Subterranean fauna in the Yilgarn

A wide variety of differing geologies within the Yilgarn provide numerous opportunities for subterranean fauna to be present. The most likely habitat for both stygofauna and troglofauna are the sometimes extensive and numerous calcrete outcrops, many of which are listed as Priority Ecological Communities (PECs) for their endemic stygofauna assemblages (Cooper et al. 2002; Cooper et al. 2007; Watts and Humphreys 2003; Watts and Humphreys 2004; Guzik et al. 2011). The upper unsaturated portions of Yilgarn calcretes contain troglofauna including pseudoscorpions, spiders, paligrades and isopods (Barranco & Harvey 2008, Baehr et al. 2012, Cooper et al. 2008, Edward & Harvey 2008 and Platnick 2008). The diversity of troglofauna in calcrete can be exceptionally high with 45 species of troglofauna recorded from the Yeelirrie calcrete (Bennelongia 2015) and 20 species at Lake Maitland (Outback Ecology 2011).

The presence of subterranean fauna in other lithologies is mixed with palaeochannel aquifers often being host to stygofaunal assemblages, but not as diverse as surficial calcrete aquifers (GHD 2012). This is due to lower hydraulic conductivity in palaeochannel aquifers compared with highly transmissive calcrete aquifers. Smaller and less well connected pore spaces limits the infiltration and dispersion of oxygen and carbon into subterranean habitats (Hose et al. 2015).

The lithologies associated with gold deposits tend to have smaller voids with less connectivity that makes them less preferable to host subterranean fauna unless the rocks are highly fractured. Intense weathering profiles of many gold bearing lithologies also reduce the likelihood of subterranean fauna with available pore spaces clogged with clay weathering products from the saprolitic zone. Troglofauna surveys at the Tropicana project recorded only four troglofauna species (Ecologia 2009a), compared with more vuggy Banded Iron Formation (BIF) habitats such as those surveyed at Weld Range, Koolyanobbing and Mt Jackson that have yielded moderately rich troglofauna communities (Ecologia 2009b, Bennelongia 2008a; Bennelongia 2008b).

Analysis has shown that there is little correlation between water quality and geology for predicting the presence of stygofauna, however, the non-random siting of groundwater wells in highly transmissive locations within various geologies has undoubtedly created a bias in the data (Halse et al. 2014). When stygofauna is present it does, however, show high levels of endemism with 98% of the stygobites and 83% of the other groundwater species recorded in the Pilbara being endemic (Halse et al. 2014). Stygofauna communities within the Yilgarn show similar patterns of endemism associated with calcrete aquifers. The majority of calcrete aquifers sampled in a systematic manner have revealed the presence of high degrees of stygofaunal and to a lesser degree troglofauna endemism, with many calcretes listed as PECs by DBCA under the BC Act (2016).

3.2 Conservation Significant Fauna and Habitats

A list of conservation significant subterranean invertebrate fauna for the Desktop Study Area was compiled from the DBCA Wildlife Conservation (Specially Protected Fauna) Notice 2019 (DBCA 2019) and the DAWE's Protected Matters Search Tool (PMST, 9th July 2021, 50 km search). No subterranean species that are listed under the BC Act and/or the EPBC Act are likely to occur, or

have known habitat within the Desktop Study Area. The PMST results listed no known subterranean fauna within the Desktop Study Area. A full description of the DBCA and EPBC conservation codes are shown in Appendix 1 and 2 respectively. The full list of species obtained from the PMST search is shown in Appendix 2.

3.3 Subterranean Fauna Habitat in the Coolgardie Area

The Kalgoorlie 1:250,000 sheet area, that includes Coolgardie area are greenstone rocks and generally host local aquifers containing saline to hypersaline groundwater (Kern, 1995).

Groundwater storage is largely limited to secondary porosity from fracturing in discrete localised areas. Aquifers associated with each of the three Project areas have been demonstrated by pump testing to be limited in extent (Aquageo 2021). Kern (1995) also reports limited interconnectivity of the fractured rock aquifer zone with recharge likely to be local.

The fractured bedrock is characterised by secondary permeability resulting from tectonic fracturing and further enhanced by chemical dissolution. Fractured-bedrock aquifers occur more commonly in mafic, ultramafic, and granitic rocks than in sedimentary or felsic volcanic and volcanoclastic rocks with open fractures occurring up to a depth of 125 m along major faults and shear zones (Kern 1995)

The ultramafics and other volcanics are generally considered to be poor habitat for troglodfauna or stygofauna unless they are highly fractured locally (Table 1). Examination of diamond drill core from the Project areas (Plate 3 and Plate 4) has shown fracturing to be absent in the most part or minor, and provides little opportunity for subterranean fauna.

The local granitoids are also considered to have poor subterranean fauna suitability due to being massive in nature with minor foliation and a general absence of interconnected voids except at a localised permeable horizon immediately above the fresh bedrock (Kern 1995, Table 1, Plate 3). Pegmatite dykes and quartz veins are highly fractured and can locally form important aquifers (Kern 1995), however, in general the granitic rock are considered to be poor aquifer hosts in the Coolgardie and Kalgoorlie region and hence are considered to have a low likelihood of forming suitable stygofauna habitat (Table 1, Plate 5).

The presence of the Bonnievale palaeochannel aquifer to the north of the Project areas provides some limited habitat for stygofauna, as it is comprised of fine grained sand, confined by a clay and silt layer (Kern 1995, Table 1). The fine grained sand provides potential for large amounts of water storage, but generally lacks the interconnected void spaces required for stygofauna habitat. The Palaeochannel and its associated aquifer is some distance (approximately 5 km) from the Bonnievale Project area, and approximately 10 – 12 km north of the Alicia, Big Blow, Happy Jack, Greenfields, CNX, and Brilliant Project areas and due to the tight localised geology of the Project areas any dewatering is not anticipated to extend laterally any significant distance (Aquageo 2021).



Plate 3 Mafic (upper) and granitic (lower) core (BONDD068) from the Bonnievale Project Area showing no fracturing at depth that would provide potential habitat for stygofauna.

Table 1 Geological units in the Coolgardie area and Subterranean fauna habitat potential.

Unit	Description / Remarks	Subterranean Fauna Suitability
Colluvium and alluvium	Quartz sand and soil	Low for stygofauna and troglifauna.
Bonnievale Palaeochannel	Sand confined by clay and silts	Low to Moderate for stygofauna (hypersaline) Nil for troglifauna (saturated)
Coolgardie Sill	Basalt	Low for stygofauna (Moderate if highly fractured) Low for troglifauna
Granitoids	Intrusive granodiorite	Low for stygofauna (Moderate if highly fractured) Low for troglifauna
Archean basement greenstones	Partially remelted Archean ultra mafics, komatiites	Low for stygofauna and troglifauna unless highly fractured.

3.4 Likelihood of stygofauna presence

A search was undertaken of the Western Australian Museum databases for Crustaceans (WAM 2021a) and Arachnids/Myriapods (WAM 2021b). The results of these searches were filtered for subterranean stygofauna species. No stygofauna records are present within the WAM database records.

It should be noted that only WAM records from the Arachnida/Myriapoda, and Crustacean databases are available to determine subterranean species and does not include records of Insects (i.e. Stygobiontic diving beetles) as the WAM Insect database is unavailable for database searches.

Water quality in the Greenfields Project area is largely hypersaline with historical total dissolved solids (TDS) measurements of between 28,000 mg/L to 40,000 mg/L further reducing the likelihood that stygofauna are present within the local aquifers. Although stygofauna have occasionally been recorded in hypersaline groundwater (up to 35,000 mg/L TDS), this has mostly been associated with aquifers at the edges of salt lakes and the majority of hypersaline waters have not been found to contain stygofauna. No water quality data was available for the Alicia, Big Blow, Brilliant, CNX, Happy Jack or Bonnievale Projects, however, the majority of groundwater in the Coolgardie region, especially at depth is saline to hypersaline (Kern 1995, Invertebrate Solutions 2020).

The absence of stygofauna records from the Coolgardie and Kalgoorlie area would suggest that stygofauna habitat, and therefore stygofauna is generally absent or present in very low abundance, although it is unknown what sampling intensity has previously been undertaken and it may be due to a paucity of sampling. It is, however, reasonable to conclude that stygofauna have a low likelihood of occurrence within the Project areas examined especially when considering the absence of available habitat within core examined and sub-optimal water quality.

The core photos from the three project areas examined all showed a general absence of any fracturing at depth that may provide secondary porosity necessary to provide habitat for stygofauna (Plate 3, Plate 4, Plate 5, Plate 6, Plate 7).

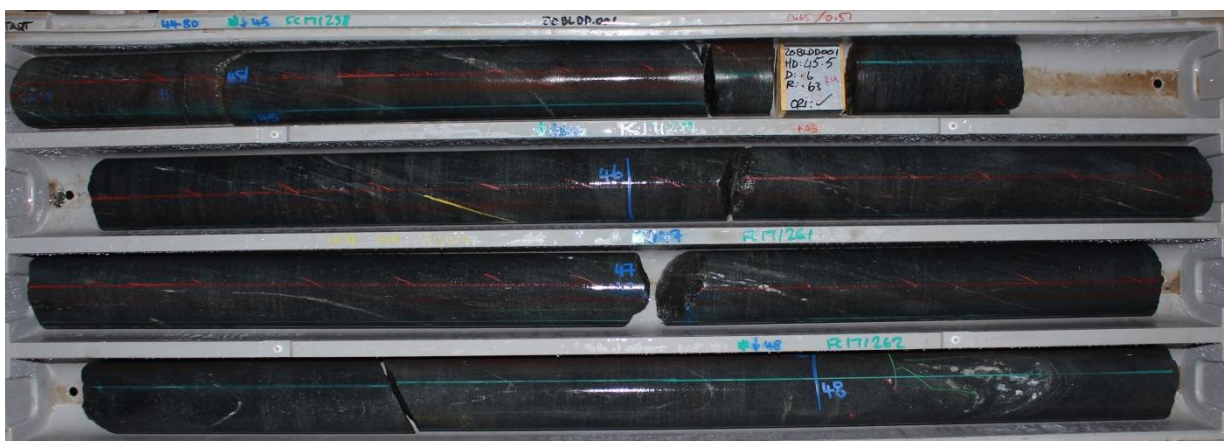


Plate 4 Ultra mafic rock from the Brilliant Project area showing no fracturing at depth that would provide potential habitat for stygofauna.



Plate 5 Ultra mafic and pegmatitic rock from the Greenfield Project area showing no fracturing at depth that would provide potential habitat for stygofauna.

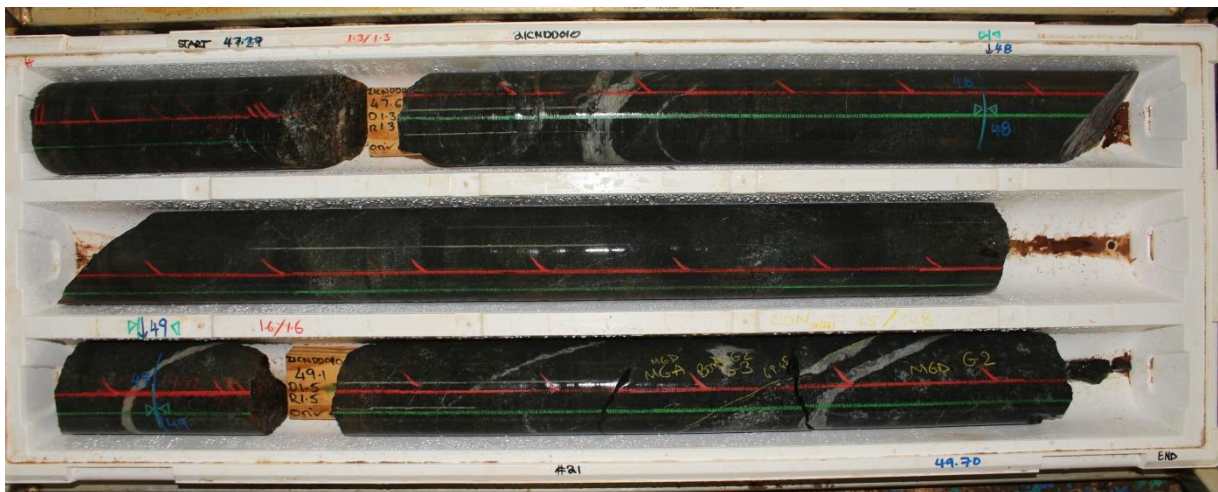


Plate 6 Ultra mafic rock from the CNX Project area showing no fracturing at depth that would provide potential habitat for stygofauna.



Plate 7 Mafic rock with quartz veins from the Big Blow Project area showing no fracturing at depth that would provide potential habitat for stygofauna.

3.5 Likelihood of troglofauna presence

A search was undertaken of the Western Australian Museum databases for Crustaceans (WAM 2021a) and Arachnids/Myriapods (WAM 2021b). The results of these filtered for subterranean troglofauna species. No troglofauna has been recorded from within the Desktop Study Area in databased WAM records.

The absence of troglofauna records from the Coolgardie and Kalgoorlie area would suggest that troglofauna is generally absent or present in very low abundance, although it is unknown what sampling intensity has previously been undertaken and it may be due to a paucity of sampling.



Plate 8 Clay dominated non-saturated zones in the Bonnievale area shows Low or Nil troglofauna habitat potential.



Plate 9 Clay dominated non-saturated zones in the CNX area shows Low or Nil troglofauna habitat potential.

The overlaying colluvium, known as the Mesovoid Shallow Substratum (MSS) is virtually un-sampled, but is increasingly known worldwide to contain significant troglobiont communities (Ortuño 2013); however, the sand and soil dominated nature of this colluvium makes the likelihood low that it will contain troglofauna in this particular area.

Core photos examined for the upper non-saturated zone confirm the absence of suitable fracturing that provides interconnected void space in the upper rock strata that may provide habitat for troglofauna. The alluvium and colluvium deposits surrounding and within the majority of the Project areas have a low suitability for troglofauna habitat, due to the fine silty nature of the alluvium that also infills any minor voids or fractures (Plate 8 and Plate 9).

4. Conclusions and Recommendations

The Coolgardie Gold Project – Alicia, Big Blow, Bonnievale, Brilliant, CNX, Greenfields and Happy Jack deposit Areas, Coolgardie, is within the Norseman-Wiluna Greenstone Belt of the Eastern Goldfields Province, which is largely covered in shallow colluvium and alluvium. The colluvium and alluvium lithologies surrounding and within much of the seven Project areas have a low suitability for both troglofauna and stygofauna habitat due to the absence of interconnected voids in these fine grained units. The ultramafics and other volcanics are generally considered to be poor habitat for troglofauna or stygofauna unless they are highly fractured locally. The intrusive granitoids are also considered to have poor subterranean fauna suitability due to a general absence of interconnected voids unless they are highly locally fractured. Examination of diamond drill core from the Project areas has shown fracturing to be absent in the most part, or minor and provides little opportunity for subterranean fauna. Water quality in the Coolgardie Gold Project area is largely hypersaline (Focus Minerals 2021) further reducing the likelihood that stygofauna are present within the local aquifers.

The absence of stygofauna and troglofauna records from the Coolgardie area would suggest that subterranean habitat, are generally absent or present in very low abundance, although it is unknown what sampling intensity has previously been undertaken and it may be due to a paucity of sampling. It is reasonable to conclude that subterranean fauna have a low likelihood of occurrence within the seven Project areas, when considering the absence of potential voids and cracks and the hypersaline nature of the groundwater.

No further survey work for stygofauna or troglofauna is necessary in order to meet the Technical Guidance – Subterranean Fauna Surveys for Environmental Impact Assessment (EPA2021).

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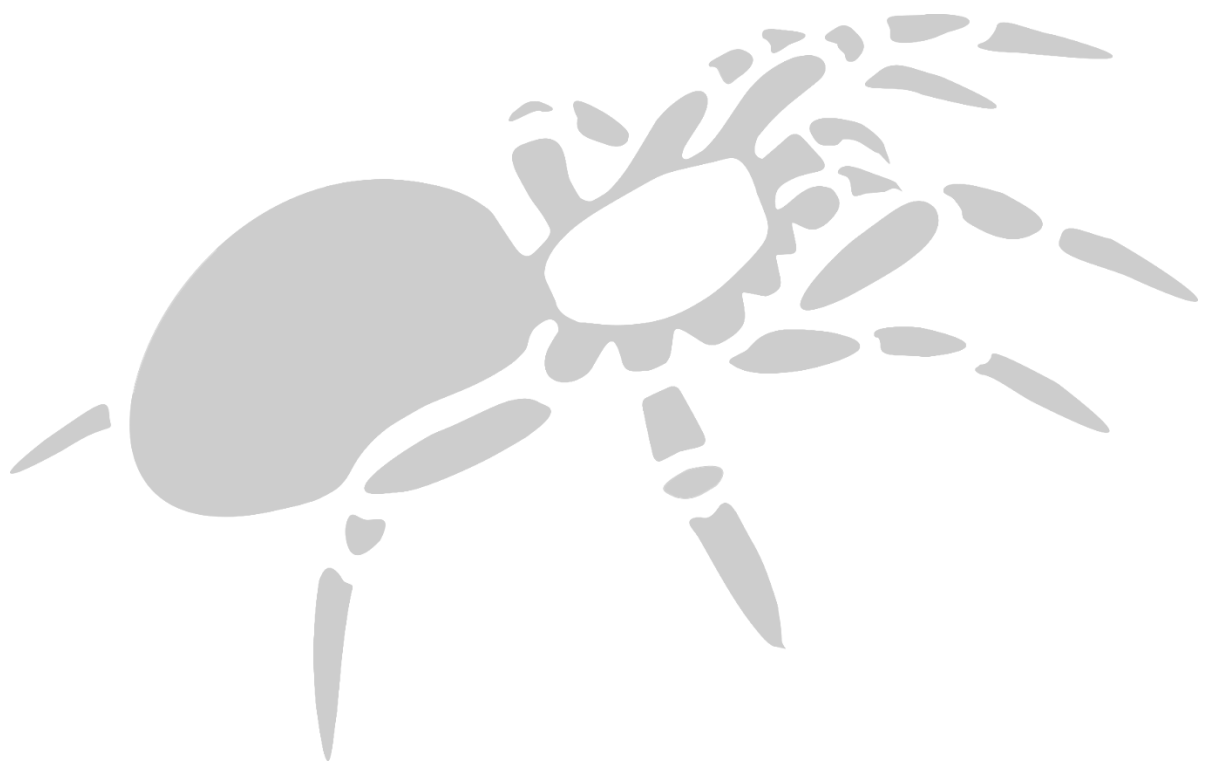
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Appendix 1

DBCA Conservation Categories

Appendix 2

Protected Matters Search Results



www.invertebratesolutions.com

Appendix C: Addendum – *Dasyurus geoffroii*

14 November 2024

Attention: Gemma Blick
Focus Minerals Limited
Level 5, 8 St Georges Terrace
Perth WA 6000

RE: Coolgardie Gold Project Biological Survey - 360 Environmental 2021

Dear Gemma

360 Environmental Pty Ltd (now SLR Consulting Australia (SLR)) was commissioned by Focus Minerals Limited (FML) to undertake a biological survey to support the environmental approval process for an expansion of FML's Coolgardie operations in 2021. During this survey, 360 personnel observed what they considered to potentially be a Chuditch (*Dasyurus geoffroii*) scat. We understand that, based on the report's finding, the Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) imposed conditions related to the Chuditch.

SLR notes that at the time the 360 Environmental report was written, the Species Profile and Threats Database indicated that the species or species habitat may occur within the survey area. This combined with the scat informed the conclusions made in the report. We note that scat identification cannot be definitive without genetic testing. Such testing would have provided clarity regarding whether the scat was from a Chuditch. Unfortunately, genetic testing was outside the scope of our works and the scat has not been retained and thus cannot be tested now.

In response to your query SLR reviewed the 2021 360 Environmental report findings, including the information on the scat in question, and considered the most up-to-date distribution maps from Strahan's Mammals of Australia (Baker & Gynther, 2023). As noted above scat identification cannot be definitive without genetic testing and the distribution maps indicate that the survey area is outside the currently known distribution of the Chuditch. SLR therefore considers that, on the balance of probabilities, Chuditch does not occur within the survey area and we therefore believe that the approval conditions related to the Chuditch have little basis and would serve no useful purpose.

Regards,

SLR Consulting Australia

A handwritten signature in blue ink, appearing to read 'E Webb'.

Evan Webb
Associate Zoologist
ewebb@slrconsulting.com

A handwritten signature in blue ink, appearing to read 'Michael Lohr'.

Dr Michael Lohr
Principal Zoologist
mlohr@slrconsulting.com

Appendix D: Addendum – *Jalmenus aridus*

From: [Rod Eastwood](#)
To: [Gemma Blick](#); [Michael Lohr](#)
Subject: Re: Inland Hairstreak Paper
Date: Thursday, 3 October 2024 5:58:15 PM
Attachments: [image004.png](#)
[image005.png](#)

Hello Gemma,

I can confirm that I searched for the P1 listed butterfly, *Jalmenus aridus* (Inland Hairstreak) when we surveyed the Three Mile Project, Coolgardie for the Critically Endangered butterfly (*Ogyris petrina*, aka ABAB) on 15-16/12/2021 (I do this routinely on all surveys). This was the first record of *J. aridus* occurring in December, so I was a little surprised to find them at that time. I can also confirm that the majority of the habitat was unsuitable for either butterfly species. No *Camponotus* sp. nr. *terebrans* ants (the host ant for *Ogyris petrina*), were located during the survey so the entire survey area does not support the ABAB butterfly.

The small population of *J. aridus* I found in Kangaroo Hills Timber reserve was collected on 14/10/2023 so I cannot say for certain that *J. aridus* does not occur in other areas on the Three Mile Project site in October or other times of year. However, I believe it would be impractical or excessive to test this.

Jalmenus aridus was first found at Lake Douglas in 1983 and was subsequently listed as Priority 1 (data deficient) since it was only known to occur at the single site. In 2021 a new population was found at Kalgoorlie and today the butterfly is known from 16 breeding sites with its Extent of Occurrence (EOO) measuring 8500 sq. km (data not yet published). So it seems likely that the butterfly is not as rare as was first thought.

Feel free to ask if you have any more questions.

Regards,

Rod.

Rod Eastwood PhD
133/1 Rowe Avenue
Rivervale, WA 6103
Australia
Phone: +61 (0)476 054 927

Research Associate
Western Australian Museum

On Thu, Oct 3, 2024 at 11:22 AM Gemma Blick <gblick@focusminerals.com.au> wrote:

Hi Rod,

Further to Mikes email below, can you please confirm what he mentioned around the 2022 ABAB survey areas on our tenements in Coolgardie that were surveyed being unlikely to support the Inland Hairstreak and also that you searched for them during that survey.

Kind Regards

Gemma

Gemma Blick

Environment Manager

T: +61 8 9215 7888 | **M:** 0427 618 533

Focus Minerals Limited

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Perth WA 6000

PO Box 3233

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BEFORE PRINTING THIS E-MAIL
please consider the environment

From: Michael Lohr <mlohr@slrconsulting.com>
Sent: Thursday, 3 October 2024 11:16 AM
To: Gemma Blick <gblick@focusminerals.com.au>
Cc: Rod Eastwood <rodeastwood6@gmail.com>
Subject: Inland Hairstreak Paper

Hi Gemma,

It was great to talk earlier. Here is the paper I mentioned. I spoke to Rod and he confirmed that most to the habitat within the survey area would not be likely to support Inland Hairstreak but he mentioned that he subsequently detected another population on conservation tenure land relatively close to the populations we found within the survey area. I've copied Rod in in case you have any follow up questions about the sufficiency of the survey we did to detect the Inland Hairstreak across the survey area. Please reach out if you require any additional surveys for the planned expansions.

Cheers,

Mike

Dr Michael Lohr (*he/him/his*)
Principal Zoologist - Ecology & Biodiversity
Fauna Ecology Team Leader

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