Basic and targeted vertebrate fauna reconnaissance survey and risk assessment

Bullabulling Heap Leach Project

Prepared for: Bullabulling Operations Pty Ltd

Version 1. January, 2022





RECORD OF DISTRIBUTION

No. of copies	Report File Name	Report Status	Date	Prepared for:	Initials
Electronic	2021-0048-002-GT V1.DOCX	DRAFT	7 December 2021	Bullabulling Operations Pty Ltd	GT
Electronic	2021-0048-002-GT V1.DOCX	FINAL	8 January 2022	Bullabulling Operations Pty Ltd	ST

Suggested Citation: Terrestrial Ecosystems 2022 *Basic and targeted vertebrate fauna reconnaissance survey and risk assessment for the Bullabulling Heap Leach Project*, Unpublished report for Bullabulling Operations Pty Ltd, Perth

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EXECUTIVE SUMMARY

Norton Gold Fields Pty Ltd (Norton) on behalf of Bullabulling Operations Pty Ltd which is a wholly owned subsidiary of Norton is proposing to recommence mining and processing at its Bullabulling Operations which is currently in care and maintenance. The Bullabulling operations is located approximately 26km south-west of Coolgardie and 70km south-west of the City of Kalgoorlie-Boulder in Western Australia.

Terrestrial Ecosystems was commissioned by Integrate Sustainability Pty Ltd, on behalf of Norton, to undertake a Basic vertebrate fauna risk assessment and targeted survey for Malleefowl to support an environmental impact assessment.

Project area/assessment area is 2,529.3ha, with approximately 550ha already highly disturbed by previous mining and exploration activity. Terrestrial Ecosystems mapped four broad fauna habitats across the assessed area. The habitats are:

- Acacia shrubland thickets,
- mixed Eucalypt woodland with and without an understorey of shrubs,
- mallee woodland; and
- rehabilitated areas with or without Eucalypt woodland over chenopods.

In addition to those habitats listed above, there are highly disturbed areas that are largely devoid of vegetation, infrastructure or mining voids that have either no fauna or a very depleted fauna assemblage. There are also large areas of rehabilitation which vary in quality from very poor to very good rehabilitation.

The site investigation recorded recently used Malleefowl (listed as Vulnerable) mounds, which suggest they are likely present in low abundance. There is a possibility that the Peregrine Falcon (listed as other specially protected fauna in WA), the mallee form of the Western Rosella (Priority 4) and the Central Long-eared Bat (Priority 4) may infrequently utilise the area. Except for the Malleefowl, vegetation clearing and mining activities are unlikely to significantly impact on these threatened species as they will readily move to adjacent areas if disturbed. The area supports a very small area of old growth spinifex, but it is insufficient and not of a suitable structure to provide roosting and nesting habitat for Night Parrots or a unique fauna assemblage.

Clearing native vegetation in the project area is likely to result in the loss of small vertebrate fauna on-site that are unable to move away during the clearing process, however, this loss is not likely to be significant when viewed in a bioregional context. The few larger animals, such as kangaroos, large goannas and snakes, and most of the birds will move into adjacent areas once vegetation clearing commences, so potential impacts will be low. There may be an on-going loss of small native fauna to vehicle strikes on access tracks, but overall, this impact will be low. Forced fauna migrants resulting from vegetation clearing will increase competition for resources, which may result in the subsequent loss of migrants or local individuals. Individuals shifted out of their established activity areas are also vulnerable to predation until they have become established in their new areas.

Impacts on vertebrate fauna associated with clearing vegetation in the local landscape or bioregional context are likely to be low as there are vast tracts of similar fauna habitat in adjacent areas.

Feral predators such as wild dogs and feral cats and possibly foxes are present on site and likely, in a landscape context, to have a much larger impact on the vertebrate fauna than clearing the vegetation or the recommencement of mining and processing activities in this location.

Additional information about the disturbance area and proposed mining activities are a required before a judgement on potential impacts on Malleefowl can be made and a recommendation provided on whether the proposed Action should be referred to the Commonwealth Government under the *EPBC Act*.

1. INTRODUCTION

1.1 BACKGROUND

Norton Gold Fields Pty Ltd (Norton) on behalf of Bullabulling Operations Pty Ltd which is a wholly owned subsidiary of Norton, is proposing to recommence mining and processing at its Bullabulling Operations which is currently in care and maintenance. The Bullabulling operations is located approximately 26km south-west of Coolgardie and 70km south-west of the City of Kalgoorlie-Boulder in Western Australia (Figure 1).

Integrate Sustainability Pty Ltd on behalf of Norton requested a Basic vertebrate fauna risk assessment and targeted survey for an area of 2,529.3ha situated around the existing Bullabulling Operations (project area). The project area straddles the Great Eastern Highway (Figure 1) with approximately 550ha cleared or previously disturbed.

1.2 PROJECT OBJECTIVES AND SCOPE OF WORKS

Terrestrial Ecosystems undertook a Basic vertebrate fauna risk assessment and targeted survey for Malleefowl mounds to support future environmental approvals. The methodology broadly follows that described in the Environmental Protection Authority (EPA; 2020) *Technical Guidance – Terrestrial vertebrate fauna surveys for environmental impact assessment*.

A Basic vertebrate fauna risk assessment and Malleefowl survey involved undertaking a desktop review and site visit. The objectives of this assessment were to:

- provide an indication of the vertebrate fauna assemblage (reptiles, amphibians, mammals and birds) in and near the project area, so that potential impacts on the fauna and fauna assemblage might be adequately assessed;
- locate and record recently active Malleefowl mounds; and
- describe the major vertebrate fauna habitats present.

To achieve these objectives, Terrestrial Ecosystems:

- reviewed Terrestrial Ecosystems' database [includes Atlas of Living Australia and Department of Biodiversity, Conservation and Attractions (DBCA) records in NatureMap] to identify potential vertebrate fauna within the area;
- searched the DBCA's NatureMap for Threatened and Priority Species;
- searched the Commonwealth Governments database of fauna of national environmental significance to identify species potentially occurring within the area that are protected under the *Environment Protection and Biodiversity Conservation (EPBC) Act 1999* or international migratory bird agreements (JAMBA/CAMBA);
- undertook a site reconnaissance survey and a search for active and recently active Malleefowl mounds;
- reviewed previous fauna surveys conducted near the project area in similar habitat types; and
- discussed the likelihood of *EPBC Act 1999* and *Biodiversity Conservation (BC) Act 2016* listed species being present in the project area.

1.2.1 Invertebrates

This assessment has not included an assessment of the potential for invertebrate species (e.g. *Ogyris subterrestris petrina*, *Jalmenus aridus*).

2. EXISTING ENVIRONMENT

2.1 LOCATION OF PROJECT AREA

The project area is near the western boundary of the Eastern Goldfields (COO3) Interim Biogeographic Regionalisation of Australia (IBRA) subregion within the Coolgardie Biogeographic region. This subregion lies on the Yilgarn Craton and has subdued relief and gently undulating plains with low hills and ridges of Archaean greenstone in the western section (Cowan 2002). The vegetation in the subregion is typically mallee, Acacia thickets and shrubland on the sandplains and eucalypt woodlands around salt lakes, ranges and in the broad valleys. The surrounds of salt lakes support a variety of chenopods.

2.2 LAND USE HISTORY

The dominant land uses in the IBRA subregion are unallocated Crown land and reserves, grazing on native vegetation pastures and mining leases.

2.3 CLIMATE

The project area is characterised as warm Mediterranean. Coolgardie which is approximately 26km to the north-east has an annual rainfall of approximately 270mm, although this varies considerably from year-to-year. The highest mean maximum and minimum temperatures in Coolgardie are in December to February (Bureau of Meteorology 2021). The lowest mean daily maximum and minimum temperatures occur in July (Chart 1). Rainfall predominantly occurs between May and June as a result of low-pressure cells moving in an easterly direction and summer thunderstorms typically in January to March.

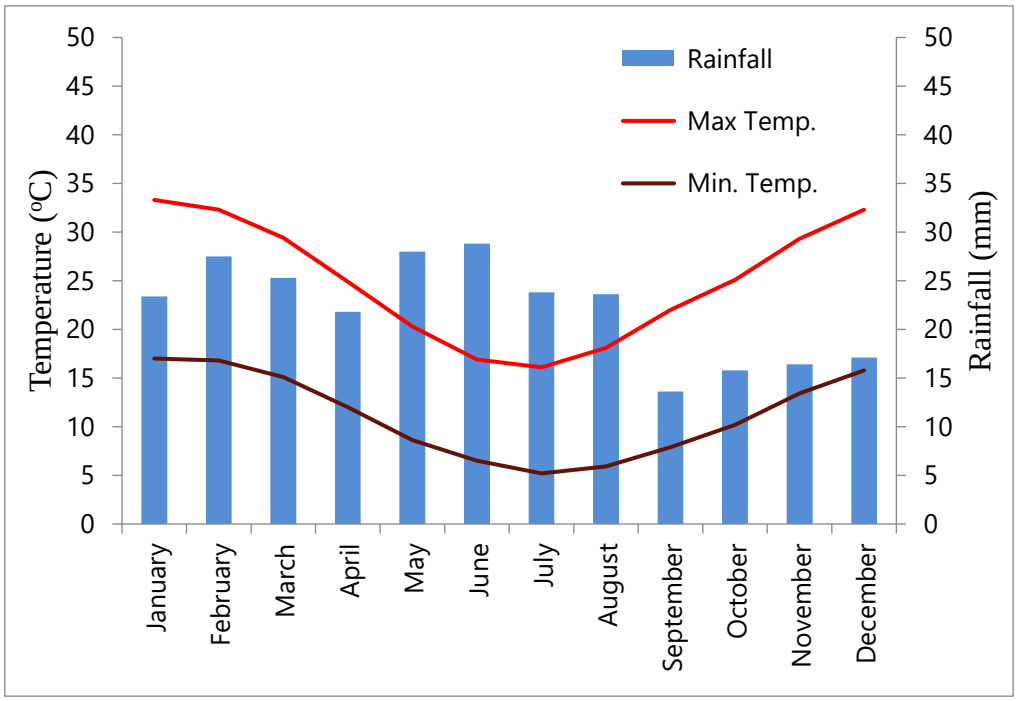


Chart 1. Climatic averages for Coolgardie

2.4 REGIONAL BIOLOGICAL FAUNA CONTEXT OF PROJECT AREA

The frogs, reptiles, mammals and birds in the vicinity of the project area have been surveyed for other environmental assessments and research purposes and are therefore known. Fauna surveys and assessments undertaken in the vicinity of the project area or within the project area that have been reviewed for this assessment include:

- Bamford, M.J., Davies, S.J.J.F. and Ladd, P.G. (1990) *Biological Survey of the Kangaroo Hills and Calooli Timber Reserves, Coolgardie, Western Australia*. Perth.
- Barrett, G. (1991) *A Biological Survey of Victoria Rock Nature Reserve*, Unpublished report for the Goldfields Naturalist Club, Perth.
- Bell, D.T., Bell, R.C. and Loneragan, W.A. (2007) Winter bird assemblages across an arid gradient in south-west Western Australia, *Journal of the Royal Society of Western Australia*, 90, 219-227.
- Chapman, A., Kealley, I., McMillan, D., McMillan, P., Rolland, G. (1991) Biological surveys of four Goldfields Reserves: Kurrawang Nature Reserve, Burra Rock Nature Reserve, Cave Hill Nature Reserve and Dordie Rocks Nature Reserve , *Landnote* , 1/91, 1-26.
- Dell, J., How, R.A., Newbey, K.R. and Hnatiuk, R.J. (1985) The Biological Survey of the Eastern Goldfields of Western Australia Part 3; Jackson – Kalgoorlie, *Records of the Australian Museum*, Supplement No 23.
- Eco Logical Australia, (2016) *Biological Assessment - Binduli Expansion Project. Level 1 vertebrate fauna and Short-range Endemic invertebrate survey*, Unpublished report for Norton Gold Fields Limited, Perth.
- GHD (2008) *Bullabulling Gold Project Fauna Survey of Eileen and Bacchus Pits*, Unpublished report for Jervois Mining, Perth.
- Harewood, G. (2014) *Malleefowl (*Leipoa ocellata*) Assessment Bullabulling Gold Project*, Unpublished report for Botanica Consulting on behalf of Bullabulling Gold Ltd/Significant Environmental Services, Perth.
- Keighery, B.J., McKenzie, N.L. and Hall, B. (1995) The Biological Survey of the Eastern Goldfields of Western Australia. Part 11. Boorabbin-Southern Cross Study Area, *Records of the Western Australian Museum*, Supplement No. 49.
- McKenzie, N.L. and Hall, B. (1992) The Biological Survey of the Eastern Goldfields of Western Australia. Part 8. Kurnalpi-Kalgoorlie Study Are, *Records of the Western Australian Museum*, Supplement No. 41.
- Ninox Wildlife Consulting (1995) *Vertebrate Fauna Studies Kambalda Area (1993) Widgiemooltha Area (1994)*, Unpublished report for Western Mining Corporation, Perth.
- Ninox Wildlife Consulting (1999) *Survey for the White Foil Gold Project*, Unpublished report for Mines and Resources Australia Pty Ltd, Perth.
- Ninox Wildlife Consulting (2002) *A Vertebrate Fauna Assessment of the Proposed White Foil Haul Road Route near Kalgoorlie, Western Australia*, Unpublished report for Mines and Resources Australia Pty Ltd, Perth.
- Phoenix Environmental Services (2014) *Level 2 Flora and Vegetation Survey and Level1 fauna Survey for the Bullabulling Gold Project*, Unpublished report for Bullabulling Gold Ltd, Perth.
- RPS (2012) *Spring Level 2 Flora and Vegetation Survey and Level1 Fauna Assessment Bullabulling Gold Project*, Unpublished report for Bullabulling Gold Ltd, Perth.
- Thompson, S. (2004) *Mine site rehabilitation index using reptile assemblage as a bio-indicator*, PhD Thesis, Edith Cowan University, Perth Ora Banda Thompson PHD and other data, Perth and additional data collected after submission of the thesis.

Data in the Atlas of Living Australia and Western Australian Museum have also been added to the information contained in Appendix B, and the compilation of the species lists for the project area.

The report by GHD (2008), although indicated by the scope of works would provide an inventory of vertebrate fauna species, provided limited data of value. Harewood (2014) surveyed 3,660ha, including the realignment of the powerline easement using 'closed spaced transects' using quad bikes. Harewood (2014) concluded that the Bullabulling area does not appear to represent an area of particular significance to Malleefowl. He recorded 14 Malleefowl mounds; 13 of which were very old, with the remaining mound being constructed in the previous

breeding season and then abandoned without being used. The location of mounds identified by Harewood (2014) is shown in Table 1.

Table 1. Malleefowl mounds reported by Harewood (2014) (Zone 51; GDA94)

#	Easting	Northing	Comment
RPS1	300896	6564769	This mound could not be relocated at the provided coordinates during the most recent survey. Given its close proximity, it is assumed to be the same mound located by Phoenix Environmental Services (PES) 60m north in 2013 (PES 1)
PES1	300886	6564832	Originally located by PES and classified as "inactive". Relocated in 2014 by Botanica Consulting (BC). Appears not to have been used for several years (~5-10, possibly more). Some minor animal diggings (rabbits ?)
PES2	29955	6564164	Originally located by PES and classified as "inactive". Relocated in 2014 by BC. Appears not to have been used for several years (~5-10yrs, possibly more). Has accumulated leaf litter and plants growing within.
PES3	298714	6564260	Originally located by PES and classified as "active". Relocated in 2014 by BC. The classification of this mound as active appears to be incorrect or status has changed. Appears not to have been used for several years (~2-5yrs). Has animal diggings (large goanna?) and plants growing around rim.
BC1	299428	6563285	This mound appears to have been constructed during the previous breeding season (late 2013/early 2014) and then abandoned without being used. Has some animal diggings and small plants growing around rim. Has potential to be re-used. Camera trap deployed to record any possible future activity.
BC2	299257	6563781	Very long (>20 years) unused (extinct) mound that was low and flat without peak or crater.
BC3	299220	6564112	Very long (>20 years) unused (extinct) mound that was low and flat without peak or crater.
BC4	299673	6564209	Very long (>20 years) unused (extinct) mound that was low and flat without peak or crater.
BC5	301241	6565180	Very long (>20 years) unused (extinct) mound that was very low and flat without peak or crater and plants growing within.
BC6	301437	6564588	Very long (>20 years) unused (extinct) mound that was low and flat without peak or crater and large plants growing on it.
BC7	298296	6564745	Very long (>20 years) unused (extinct) mound that was low and flat with very minor rim and crater and large plants growing on it.
BC8	301962	6569087	Very long (>20 years) unused (extinct) mound that was low and flat without peak or crater and very large plants growing on it.
BC9	301344	6569214	Very long (>20 years) unused (extinct) mound that was low and flat without peak or crater and with plants growing on it.
BC10	301264	6564324	Very long (>20 years) unused (extinct) mound that was low and flat without peak or crater and with plants growing on it.

RPS (2012) did not provide any categories of fauna habitats but commented on the presence of ephemeral drainage lines, the presence of large mature trees, the abundance of fallen logs and leaf litter in areas. Data on

the presence of vertebrate fauna species came from NatureMap and a search of the EPBC online database. Footprints of a Malleefowl were recorded in the project area along with mounds. A list of bird and reptile species recorded was provided and the presence of Grey Kangaroos, European Rabbits, Camel and *Equus* sp. was noted.

Phoenix Environmental Services (2014) reported the following six fauna habitat types:

- Open Eucalyptus woodland with varying open–dense understory (1450ha, 39.6% of the study area): found throughout the study area with the exception of Gibraltar. It potentially supports several species of conservation significance, especially birds, such as the Malleefowl (VU), Western Rosella (inland ssp.; *Platycercus icterotis xanthogenys*, P4) and Shy Heathwren (*Hylacola cauta whitlocki*, P4). Several tree bearing hollows were noted but they appear rare in the study area. Hollows can support species such as parrots for nesting.
- Dominant shrublands, scattered Eucalyptus species (1379ha, 37.6% of the study area): scattered throughout the study area with the exception of Gibraltar. Very similar to the previous habitat but the trees are much sparser providing less shade and hollows but more open ground, ideal for small birds to forage (e.g. Shy Heathwren, P4). The shrubs can also provide cover for the South-western Carpet Python (S4) but the density of the shrubs and leaf litter is somewhat limited in parts.
- Cleared habitat (571ha, 15.6% of the study area): cleared habitats are restricted to the 2011 survey area and are unlikely to support any conservation significant species.
- Ephemeral drainage lines and small creeks (173ha, 4.7% of the study area): these occur in all survey areas (2011 and 2013) except Gibraltar. These are very minor in size and there is no adjacent riparian vegetation. It is therefore unlikely this habitat will support migratory shorebirds when inundated; however, the Rainbow Bee-eater may forage in this habitat. None of the drainage lines were inundated at the time of the survey.
- Heavily disturbed open *Eucalyptus* woodland with sparse shrub cover (79ha, 2.2% of the study area): this habitat is restricted to and occupies the full extent of Gibraltar. It is unlikely to support any species of conservation significance due to the high level of disturbance and sparseness of cover.
- *Acacia* woodland with *Triodia* dominated understory, loose sandy soil (13ha, 0.4% of the study area): a very small amount of this distinct habitat is present in the northern part of the 2013 survey area. It could potentially support the Common Slender Blue-tongue (*Cyclodomorphus branchialis*, S1) as it fulfils habitat requirements for this species.

Phoenix Environmental Services (2014) provided a vertebrate fauna species list based on opportunistic observations and a single SM2 echolocation records for a single night (Appendix B).

2.4.1 Fauna species at risk

Cowan (2002) reported multiple vertebrate fauna species at risk in the subregion [i.e. Malleefowl (*Leipoa ocellata*), Carpet Python (*Morelia imbricata*), Peregrine Falcon (*Falco peregrinus*), Chuditch (*Dasyurus geoffroii*) and Freckled Duck (*Stictonetta naevosa*). Since then, the Night Parrot (*Pezoporus occidentalis*) has been added to the list of conservation significant vertebrate species potentially in the project area.

3. METHODOLOGY

3.1 DATABASE SEARCHES

A review of the *EPBC* list of protected species was undertaken to identify species of conservation interest to the Commonwealth Government. The search area was a circle with a radius of 50km around a centre point of 31.009ºS, 120.9083ºE (Appendix A). In addition, a desktop search of the Terrestrial Ecosystems' fauna survey database was used to develop an appreciation of the vertebrate fauna assemblages in relevant sections of the bioregion near the project area. The list of DBCA Threatened and Priority species was obtained via the records in NatureMap.

Other more general texts were also used to provide supplementary information on vertebrate fauna in the bioregion, including Tyler et al. (2000) for frogs; Storr et al. (1983, 1990, 1999, 2002) and Thompson and Thompson (2006) for reptiles; Johnstone and Storr (1998, 2004) for birds; and Van Dyck and Strahan (2008) for mammals.

Collectively these sources of information were used to create lists of species expected to utilise the project area and broader subregion. It should be noted that these lists will include species that have been recorded in the general region but are possibly vagrants and they will not generally be found in the project area due to a lack of suitable habitat (e.g. water and shore birds). Vagrants can be recorded almost anywhere. Many of the records are historical and the species is no longer present in the area (e.g. Malleefowl). Many of the bird, mammal, reptile and amphibian species have specific habitat requirements that may be present in the general area but not in the project area. Also, the ecology of many of these species is often not well understood and it can sometimes be difficult to indicate those species whose specific habitat requirements are not present in the project area. Therefore, many species will be included in the lists produced from database searches but will not be present in the actual project area.

There are errors in most databases, including NatureMap, Atlas of Living Australia and the Western Australian Museum collection. These errors occur because of a misidentification of individuals, taxonomic name changes and incorrect coordinates being entered into the database. Terrestrial Ecosystems was unable to verify the primary records, so it has used the information provided. Obvious errors have been removed but readers should appreciate that species lists, and fauna surveys reported in the appendices may include these errors.

3.2 SITE INSPECTION AND FAUNA HABITAT ASSESSMENT

A site visit was undertaken between 3 and 7 November 2021 to assess fauna habitat types and condition in the project area and to search relevant sections of the project area for active and recently active Malleefowl mounds. This information included a description of the habitat structure, habitat condition, landform, soils and vegetation and time since last fire.

The fauna habitat assessment had two foci:

- assessing fauna habitat types and their condition; and
- assessing the possible presence of and recording evidence of conservation significant fauna.

Dr Scott Thompson and Ray Turnbull undertook the site assessment, stopping at multiple locations within the project area to record a suite of data about the fauna habitat and its condition. This information included a description of the habitat structure, habitat condition, landform, soils and vegetation and time since last fire. The following data were assessed at each location as part of the habitat assessment:

Observer's Name:	
Coordinates of the location as UTM (GDA94):	

Fire history – options	
☐ > 5 years	
☐ 1-5 years	
☐ < 1 year	

Landform – options			
☐	Beach	☐	Lower slope
☐	Clay plain	☐	Mid slope
☐	Cliff	☐	Ridge
☐	Creek line	☐	River
☐	Dam	☐	Rocky outcrop / breakaway
☐	Drainage line	☐	Salt lake
☐	Dune crest	☐	Sand dune
☐	Dune slope	☐	Sand plain
☐	Dune swale	☐	Stony plain
☐	Escarpment	☐	Swamp
☐	Flat	☐	Undulating
☐	Gorge	☐	Upper slope
☐	Gully	☐	Wetland
☐	Intertidal / mangrove	☐	Water hole
☐	Lake / lake edge		

Habitat quality – options	
☐	*High quality fauna habitat* – These areas closely approximate the vegetation mix and quality that would have been in the area prior to any disturbance. The habitat has connectivity with other habitats and is likely to contain the most natural vertebrate fauna assemblage.
☐	*Very good fauna habitat* - These areas show minimal signs of disturbance (e.g. grazing, clearing, fragmentation, weeds) and generally retain many of the characteristics of the habitat if it had not been disturbed. The habitat has connectivity with other habitats and fauna assemblages in these areas are likely to be minimally affected by disturbance.
☐	*Good fauna habitat* – These areas showed signs of disturbance (e.g. grazing, clearing, fragmentation, weeds) but generally retain many of the characteristics of the habitat if it had not been disturbed. The habitat has connectivity with other habitats and fauna assemblages in these areas are likely to be affected by disturbance.
☐	*Disturbed fauna habitat*– These areas showed signs of significant disturbance. Many of the trees, shrubs and undergrowth are cleared. These areas may be in the early succession and regeneration stages. Areas may show signs of significant grazing, containing weeds or have been damaged by vehicle or machinery. Habitats are fragmented or have limited connectivity with other fauna habitats. Fauna assemblages in these areas are likely to differ significantly from what might be expected in the area had the disturbance not occurred.
☐	*Highly degraded fauna habitat* – These areas often have a significant loss of vegetation, an abundance of weeds, and a large number of vehicle tracks or are completely cleared. Limited or no fauna habitat connectivity. Fauna assemblages in these areas are likely to be significantly different to what might have been in the area pre-disturbance.

Habitat structure – combined into habitat description	
Upper stratum	
☐ Tall open woodland	☐ Scattered tall trees
☐ Tall woodland	☐ Scattered trees
☐ Open woodland	☐ Scattered low trees
☐ Woodland	☐ Low closed forest
☐ Open forest	☐ Low open forest
☐ Closed forest	☐ Low woodland
☐ Tall closed forest	☐ Low open woodland
☐ Tall open forest	
Middle stratum	
☐ Shrubland	☐ Open heath
☐ Tall shrubland	☐ Low closed heath
☐ Tall open shrubland	☐ Low open heath
☐ Low shrubland	☐ Tall closed scrub
☐ Scattered low shrubs	☐ Tall open scrub
☐ Low open shrubland	☐ Scattered tall shrubs
☐ Scattered tall shrubs	☐ Open shrubland
☐ Closed heath	☐ Scattered shrubs
Lower stratum	
☐ Closed hummock grassland	☐ Closed tussock grassland / sedgeland / herbland
☐ Mid-dense hummock grassland	☐ Tussock grass land / sedgeland / herbland
☐ Hummock grassland	☐ Open tussock grassland / sedgeland / herbland
☐ Open hummock grassland	☐ Scattered tussock / grasses / sedges / herbs
☐ Scattered hummock grassland	☐ Very open tussock grassland / herbland
Soil Type – options	
☐ Sand	☐ Silty loam
☐ Loamy sand	☐ Sand clay loam
☐ Clayey sand	☐ Clay
☐ Clay loam	☐ Peat / organic
☐ Silty clay loam	☐ Stony
☐ Sandy loam	
Soil colour - options	
☐ Black	☐ Red
☐ Brown	☐ White
☐ Grey	☐ Yellow
☐ Orange	

Surface stones – options			
☐	None	☐	Boulders (>250mm)
☐	Pebbles (0-50mm)	☐	Rocks
☐	Cobbles (51-250)		

3.3 MALLEEFOWL MOUNDS

The project area was transect searched using all-terrain vehicles (ATVs) or by walking, with the distances between transects altered based on the density of the vegetation. All possible Malleefowl mounds would have been seen by at least one of the searchers. The following Malleefowl mound profiles were used by the national Malleefowl monitoring program (National Malleefowl Recovery Team 2016) and in this report to classify mounds:

Profile 1 (Typical crater with raised rim) – this is the typical mound shape of an inactive (dormant) mound and without any accumulated vegetation in the crater.

Profile 2 (mound dug out) – this is a recently fully dug out mound with steep sides to the crater, with the base forming a box like structure with the sides normally 20-30cm deep. Sometimes litter has been raked into windrows in readiness to be placed in the mound.

Profile 3 (mound filled with litter) – this mound contains litter in the crater and is the next construction stage after profile 2. Layers of litter are evident on the surface and there may or may not be sand mixed with the litter.

Profile 4 (active mound with no crater) – this active mound is closed, and dome shaped. Note that some mounds have a dome and no crater but are not active.

Profile 5 (mound with crater and often a peak at the centre) – this is an active mound that is being opened or closed by Malleefowl.

Profile 6 (disused or extinct mound) – this mound has not been used for some time and weathering and erosion have 'flattened' the original mound.

Profile 7 (very large flat mound) – this mound is very broad and flat and generally measures in excess of 10m in diameter. The mounds are thought to have been made by a species of mega-fauna (bird similar to a Malleefowl) or in Western Australia are likely to be extinct Burrowing Bettong or Boodie warrens.

For mounds that could potentially be used again, crossed sticks were placed at the centre of the mound, so if they were moved, then there was a method of indicating use (Plate 1).



Plate 1. Crossed sticks on a Malleefowl mound used to determine use

3.4 SURVEY AND REPORTING STAFF

Dr Scott Thompson and Ray Turnbull undertook the site survey and fauna habitat assessment. Dr Graham Thompson prepared this report and Dr Scott Thompson reviewed the report before it was sent to the client. Both senior scientists have appropriate relevant post-graduate qualifications (Table 2), extensive experience in conducting fauna assessments on the Goldfields, have published research articles on biodiversity, fauna assemblages, conservation significant species, trapping techniques and temporal variations in trapped fauna assemblages and are therefore appropriately trained and experienced for the task of preparing this assessment.

Table 2. Staff qualifications, role and experience

Staff	Relevant qualifications	Experience and project role
Dr Scott Thompson	CEnvP (Specialist Ecology); BSc (Env. Sci); MSc (Env. Sci/Mng); PhD (Env. Mng); Cert IV (WHS); Cert III (Vert. Pest Mng).	Project manager; field work, analysis and reporting; >15yrs experience
Dr Graham Thompson	Post Grad Dip (Zool); MEd; PhD (Zool); Cert III (Vert. Pest Mng).	Analysis and reporting; >20yrs experience
Ray Turnbull	B (NatRes); GCert (Ornithology); GDip (Ornithology) Cert III (Vert. Pest Mng).	Field work and analysis; >15yrs experience

3.5 TAXONOMY AND NOMENCLATURE

Taxonomy and nomenclature for fauna species used in this report are generally based on the WA Museum species list. Terrestrial Ecosystems has presumed that the identifications referred to in the appendices or in reports used to provide local and regional comparative data are correct and we have only corrected obvious records where the nomenclature was known to be incorrect.

3.6 LIMITATIONS

This Basic fauna risk assessment is based on information contained in the Commonwealth Government database and other published and unpublished fauna survey data for the bioregion and a site visit. It is acknowledged that multiple surveys conducted in different seasons, repeated over several years are necessary to fully appreciate the fauna assemblage in the project area.

Lists of species potentially in and around the project area have been compiled from records in the WAM records, Atlas of Living Australia and reports of fauna surveys undertaken nearby. Some records in the Atlas of Living Australia and the WAM are very old and those species are no longer present in the area. Terrestrial Ecosystems has not been able to verify the primary data and is therefore not able to vouch for the accuracy of these records. All of these sources of data are known to contain errors, and this should be taken into account when reading this assessment. These errors occur because of a misidentification of individuals, taxonomic name changes and incorrect coordinates being entered into the database.

The *EPBC Act* online MNES database for terrestrial fauna includes historical records and places a wide buffer around previously known locations of threatened species and in its database. A search of this database will invariably include species that are either locally extinct or were never present in parts of the search area.

It is acknowledged that multiple surveys conducted in different seasons, repeated over several years are necessary to fully appreciate the fauna assemblage in a project area. The EPA (2020) *Technical Guidance Terrestrial Fauna Surveys* suggested that fauna surveys may be limited by many variables. Limitations associated with each of these variables are assessed in Table 3.

Table 3. Fauna survey limitations and constraints

Possible limitations	Constraint (yes/no); significant, moderate or negligible	Comment
Availability of data and information	Yes, negligible	There is a small amount of vertebrate fauna survey data available for similar habitats near the project area.
Competency/experience of the survey team, including experience in the bioregion surveyed	No	The authors of this report have appropriate post-graduate qualifications, undertaken multiple surveys and assessments in the Goldfields, have published a book and multiple refereed journal articles based on fauna surveys in the region and are familiar with the vertebrate fauna in this bioregion.
Scope of the survey, e.g. where faunal groups were excluded from the survey	No	The targeted search for Malleefowl mounds was comprehensive
Timing, weather and season	No	Weather was suitable for a site visit.
Disturbance that may have affected results, e.g. fire, flood	No	Disturbances in the project area have been factored into this assessment.
The proportion of fauna identified, recorded or collected	N/A	
Adequacy of the survey intensity and proportion of survey achieved, e.g. the extent to which the area was surveyed	No	Basic vertebrate fauna survey requirements were met.
Access problems	No	The site was accessible
Problems with data and analysis, including sampling biases	N/A	

N/A = not applicable, Significant = major impact on outcome of the risk assessment, Moderate = impacted parts of the field survey and risk assessment, Negligible = almost no impact on the survey and risk assessment.

4. RESULTS

4.1 FAUNA HABITAT

Six hundred and seventy-three habitat assessments were completed in the project area (Figure 2 and Figure 3). Excluding the disturbed, cleared and rehabilitated areas, there are three broad fauna habitats in the project area:

- Acacia shrubland thickets,
- mixed Eucalypt woodland with and without an understorey of shrubs, and
- mallee woodland.

Plates 2 to 21 provide representative images of the fauna habitat types. There are also areas devoid of vegetation from earlier mining and exploration activity and anthropogenic disturbance (Plates 22 to 25). The density of trees and shrubs in the relatively undisturbed areas varied across the project area. The fauna habitat quality varies in condition from highly degraded to very good with the more degraded areas due to historical and recent exploration activity and established mining pits.



Plate 2. Mixed Eucalypt woodland with and without shrubs



Plate 3. Mixed Eucalypt woodland with and without shrubs



Plate 4. Mixed Eucalypt woodland with and without shrubs



Plate 5. Mixed Eucalypt woodland with and without shrubs



Plate 6. Mallee woodland



Plate 7. Mallee woodland



Plate 8. Mallee woodland



Plate 9. Mallee woodland



Plate 10. Rehabilitated areas with Chenopod shrubland



Plate 11. Rehabilitated areas with Chenopod shrubland



Plate 12. Rehabilitated area with Eucalypts over chenopod shrubland



Plate 13. Rehabilitated areas with Eucalypt over chenopod shrubland



Plate 14. Acacia shrubland thickets



Plate 15. Acacia shrubland thickets



Plate 16. Acacia shrubland thickets



Plate 17. Acacia shrubland thickets



Plate 18. Rehabilitated area with Eucalypt woodland over chenopods



Plate 19. Rehabilitated area with chenopods



Plate 20. Rehabilitated area with Eucalypt woodland over chenopods



Plate 21. Rehabilitated area with Eucalypt woodland over chenopods



Plate 22. Disturbed area



Plate 23. Disturbed area



Plate 24. Disturbed area



Plate 25. Disturbed area

4.1.1 Feral pests

There was evidence of wild dogs and rabbits in the project area (Plates 26 and 27).



Plate 26. Wild dog scats



Plate 27. Rabbit scats

There was evidence to indicate a small population of horses in the project area (Plate 28). The ownership of these horses is unknown.



Plate 28. Horse scats

4.1.2 Malleefowl mounds

Twenty-two Malleefowl mounds were assessed (Table 4), however, some mounds reported by earlier investigators did not exist or are so old that they no longer warrant being recorded as mounds. Only 12 of the 22 mounds are significant enough to warrant monitoring as the remainder are never likely to be reused and do not provide evidence of an extant Malleefowl population in the project area (Table 4 and Figure 4). Images of the Malleefowl mounds (not including mounds which do not exist or are extremely old) are provided in Plates 29 to 49. No Malleefowl mounds were in use when examined, however, two had old egg shells indicating that they had been used in the recent past.

Preferred habitat for Malleefowl and the 12 mounds which require ongoing monitoring are identified in Figure 4.

Table 4. Malleefowl mounds (Datum GDA94, Zone 51)

Mound ID	Easting	Northing	Mound dia (m)	Crater dia (m)	Mound height (m)	Crater depth (m)	Profile	Comments
BC11	300974	6564649	10		1			shrubs; gravel; don't monitor anymore
BC13	301228	6566970	3.5		0.3			shrubs; don't monitor anymore
BC14	301130	6570372						no mound; don't monitor anymore
BC3	299220	6564111	5		0.25	0.15		very old; no structure; don't monitor anymore
BC4	299672	6564208	6		0.25			no mound; don't monitor anymore
BC5	301240	6565179	6		0.3			no mound; don't monitor anymore
BC8	301962	6569086	5					very old; don't monitor anymore
BC9	301343	6569214	8					shrubs and trees, very old; don't monitor anymore
PES1	300886	6564831	4	2	0.2	0.3	Profile 6	stony gravel surface, inactive
PES2	299556	6564164						no mound; don't monitor anymore
RPS1	300896	6564768						no mound; couldn't be found by Harewood (2014) either
TE1	299550	6568279	5.5	2	0.3		Profile 6	shrubs and stony substrate, very old
TE2	299659	6568312	8	3	0.25	0.3	Profile 6	shrubs and trees; stony substrate; very old
TE3	301429	6568943	8.5	2.3	0.5	0.35	Profile 1	eggs shells, good profile, been active in recent years, but not currently;
TE4	299162	6564827	4.5	2.3	0.4	0.4	Profile 1	stony gravel surface
TE5	299271	6564160	12	2	1	0.25	Profile 1	new mound on old mound; shrubs on outer, gravel and stones
TE6	299487	6564532	5	2	0.2	0.15	Profile 1	tree fallen over; gravel and loam; don't monitor anymore
TE7	300899	6564246	8				Profile 6	very old
TE8	301585	6569200	4.5	1.9	0.7	0.6	Profile 1	old eggshell, well formed, not currently active but probably active in previous season; added crossed sticks

Mound ID	Easting	Northing	Mound dia (m)	Crater dia (m)	Mound height (m)	Crater depth (m)	Profile	Comments
TE9	301151	6566812	5	3	0.5	1	Profile 1	gravel, well formed
TE10	300241	6563241	4	2.5	0.5	0.3	Profile 1	loam with very little gravel; litter trail still present
TE11	301226	6564152	4		0.25		Profile 6	very old



Plate 29. Malleefowl mound BC11



Plate 30. Malleefowl mound BC13



Plate 31. Malleefowl mound BC14



Plate 32. Malleefowl mound BC3



Plate 33. Malleefowl mound BC4



Plate 34. Malleefowl mound BC5



Plate 35. Malleefowl mound BC8



Plate 36. Malleefowl mound BC9



Plate 37. Malleefowl mound PES1



Plate 38. Malleefowl mound PES2



Plate 39. Malleefowl mound TE1



Plate 40. Malleefowl mound TE2



Plate 41. Malleefowl mound TE3



Plate 42. Malleefowl mound TE4



Plate 43. Malleefowl mound TE5



Plate 44. Malleefowl mound TE6



Plate 45. Malleefowl mound TE7



Plate 46. Malleefowl mound TE8



Plate 47. Malleefowl mound TE9



Plate 48. Malleefowl mound TE10



Plate 49. Malleefowl mound TE11

4.2 BIOREGIONAL VERTEBRATE FAUNA ASSEMBLAGE

Appendix B provides a summary of the fauna survey data that are available near the project area. There are appreciable differences in the recorded fauna assemblages within and among fauna surveys shown in Appendix B. These differences are partially due to the low survey effort deployed by some of the surveys and they also reflect variations in soils and vegetation as well as temporal variations in the fauna assemblages.

Tables 5-8 provide a list of vertebrate species potentially found near the project area that have been compiled based on the fauna survey report results shown in Appendix B. Species with an asterisk are listed as conservation significant and addressed in Section 4.3.

Table 5. Birds potentially found near the project area

Family	Species	Common Name	Family	Species	Common Name
Casuariidae	*Dromaius novaehollandiae*	Emu	Megapodiidae	*Leipoa ocellata*	Malleefowl*
Anatidae	*Cygnus atratus*	Black Swan	Columbidae	*Phaps chalcoptera*	Common Bronzewing
	Tadorna tadornoides	Australian Shelduck		*Phaps elegans*	Brush Bronzewing
	Anas gracilis	Grey Teal		*Ocyphaps lophotes*	Crested Pigeon

Family	Species	Common Name
Cuculidae	*Chrysococcyx basalis*	Horsfield's Bronze-Cuckoo
	Chrysococcyx osculans	Black-eared Cuckoo
	Chrysococcyx lucidus	Shining Bronze-Cuckoo
	Cacomantis flabelliformis	Fan-tailed Cuckoo
Aegothelidae	*Aegotheles cristatus*	Australian Owlet-nightjar
Podargidae	*Podargus strigoides*	Tawny Frogmouth
Caprimulgidae	*Eurostopodus argus*	Spotted Nightjar
Recurvirostridae	*Recurvirostra novaehollandiae*	Red-necked Avocet
Charadriidae	*Vanellus tricolor*	Banded Lapwing
Turnicidae	*Turnix varius*	Painted Buttonquail
Phalacrocoracidae	*Microcarbo melanoleucos*	Little Pied Cormorant
Accipitridae	*Lophoictinia isura*	Square-tailed Kite
	Hieraaetus morphnoides	Little Eagle
	Aquila audax	Wedge-tailed Eagle
	Accipiter fasciatus	Brown Goshawk
	Accipiter cirrocephalus	Collared Sparrowhawk
Cuculidae	*Heteroscenes pallidus*	Pallid Cuckoo
Strigidae	*Ninox boobook*	Southern Boobook
Alcedinidae	*Todiramphus pyrrhopygius*	Red-backed Kingfisher
Meropidae	*Merops ornatus*	Rainbow Bee-eater
Falconidae	*Falco cenchroides*	Nankeen Kestrel
	Falco longipennis	Australian Hobby
	Falco berigora	Brown Falcon
Timaliidae	*Zosterops lateralis*	Silvereye
Cacatuidae	*Eolophus roseicapilla*	Galah
	Nymphicus hollandicus	Cockatiel
Psittaculidae	*Polytelis anthopeplus*	Regent Parrot
	Neophema elegans	Elegant Parrot
	Barnardius zonarius	Australian Ringneck
Psittacidae	*Platycercus icterotis*	Western Rosella*
	Psephotus varius	Mulga Parrot
	Glossopsitta porphyrocephala	Purple-crowned Lorikeet
Ptilonorhynchidae	*Chlamydera guttata*	Western Bowerbird
	Ptilonorhynchus maculata	Spotted Bowerbird
Climacteridae	*Climacteris rufus*	Rufous Treecreeper
Maluridae	*Malurus pulcherrimus*	Blue-breasted Fairywren
	Malurus lamberti	Variegated Fairywren
	Malurus splendens	Splendid Fairywren
	Malurus leucopterus	White-winged Fairywren
Meliphagidae	*Certhionyx variegatus*	Pied Honeyeater
	Purnella albifrons	White-fronted Honeyeater
	Lichenostomus cratitius	Purple-gaped Honeyeater
	Manorina flavigula	Yellow-throated Miner
	Acanthagenys rufogularis	Spiny-cheeked Honeyeater
	Anthochaera carunculata	Red Wattlebird
	Gavicalis virescens	Singing Honeyeater
	Ptilotula ornata	Yellow-plumed Honeyeater
	Ptilotula penicillata	White-plumed Honeyeater (Western)
	Ptilotula keartlandi	Grey-headed Honeyeater
	Epthianura tricolor	Crimson Chat
	Epthianura aurifrons	Orange Chat
	Epthianura albifrons	White-fronted Chat
	Sugomel nigrum	Black Honeyeater
	Gliciphila melanops	Tawny-crowned Honeyeater
	Lichmera indistincta	Brown Honeyeater
	Nesoptilotis leucotis	White-eared Honeyeater
	Nesoptilotis flavicollis	Yellow-throated Honeyeater
	Melithreptus chloropsis	Gilbert's Honeyeater
	Melithreptus brevirostris	Brown-headed Honeyeater
Pardalotidae	*Pardalotus punctatus*	Spotted Pardalote
	Pardalotus rubricatus	Red-browed Pardalote
	Pardalotus striatus	Striated Pardalote
Acanthizidae	*Pyrrholaemus brunneus*	Redthroat
	Calamanthus campestris	Rufous Fieldwren
	Hylacola cauta	Shy Heathwren
	Acanthiza iredalei	Slender-billed Thornbill (Western)
	Acanthiza apicalis	Inland Thornbill
	Acanthiza chrysorrhoa	Yellow-rumped Thornbill
	Acanthiza uropygialis	Chestnut-rumped Thornbill
	Acanthiza robustirostris	Slaty-backed Thornbill
	Smicrornis brevirostris	Weebill
	Gerygone fusca	Western Gerygone
	Aphelocephala leucopsis	Southern Whiteface
	Pomatostomus superciliosus	White-browed Babbler
Cinclosomatidae	*Cinclosoma castanotum*	Chestnut Quail-thrush
Campephagidae	*Coracina maxima*	Ground Cuckooshrike
	Coracina novaehollandiae	Black-faced Cuckooshrike
	Lalage tricolor	White-winged Triller
Neosittidae	*Daphoenositta chrysoptera*	Varied Sittella
	Daphoenositta chrysoptera	Varied Sittella

Family	Species	Common Name
Oreoicidae	*Oreoica gutturalis*	Crested Bellbird
Pachycephalidae	*Colluricincla harmonica*	Grey Shrikethrush
	Pachycephala inornata	Gilbert's Whistler
	Pachycephala pectoralis	Golden Whistler
	Pachycephala simplex	Grey Whistler
	Pachycephala rufiventris	Rufous Whistler
Artamidae	*Artamus personatus*	Masked Woodswallow
	Artamus cinereus	Black-faced Woodswallow
	Artamus cyanopterus	Dusky Woodswallow
	Cracticus torquatus	Grey Butcherbird
	Cracticus nigrogularis	Pied Butcherbird
	Gymnorhina tibicen	Australian Magpie
	Strepera versicolor	Grey Currawong
Rhipiduridae	*Rhipidura leucophrys*	Willie Wagtail
	Rhipidura albiscapa	Grey Fantail
Monarchidae	*Grallina cyanoleuca*	Magpie-lark
Corvidae	*Corvus orru*	Torresian Crow
	Corvus bennetti	Little Crow
	Corvus coronoides	Australian Raven
Petroicidae	*Microeca fascinans*	Jacky Winter
	Petroica goodenovii	Red-capped Robin
	Melanodryas cucullata	Hooded Robin
	Eopsaltria griseogularis	Western Yellow Robin
	Drymodes superciliaris	Northern Scrub-Robin
	Drymodes brunneopygia	Southern Scrub-Robin
Locustellidae	*Cincloramphus mathewsi*	Rufous Songlark
Hirundinidae	*Hirundo neoxena*	Welcome Swallow
	Petrochelidon ariel	Fairy Martin
	Petrochelidon nigricans	Tree Martin
	Cheramoeca leucosterna	White-backed Swallow
Zosteropidae	*Zosterops lateralis*	Silvereye (Western)
Dicaeidae	*Dicaeum hirundinaceum*	Mistletoebird
Estrildidae	*Taeniopygia guttata*	Zebra Finch
Motacillidae	*Anthus novaeseelandiae*	Australasian Pipit

Table 6. Amphibians potentially found near the project area

Family	Species	Common Name
Limnodynastidae	*Neobatrachus albipes*	White-footed Trilling Frog
	Neobatrachus kunapalari	Wheatbelt Frog
	Neobatrachus pelobatoides	Humming Frog
	Neobatrachus sutor	Shoemaker Frog
	Neobatrachus wilsmorei	Plonking Frog
	Pseudophryne occidentalis	Western Toadlet

Table 7. Mammals potentially found in the project area

Family	Species	Common Name
Tachyglossidae	*Tachyglossus aculeatus*	Short-beaked Echidna
Bovidae	*Capra hircus*	Goat
	Ovis aries	Sheep
Canidae	*Canis lupus*	Dingo
Canidae	*Vulpes vulpes*	Red Fox
Felidae	*Felis catus*	Cat
Molossidae	*Austronomus australis*	White-striped Freetail Bat
	Mormopterus planiceps	Southern Free-tail Bat
Vespertilionidae	*Chalinolobus gouldii*	Gould's Wattled Bat
	Chalinolobus morio	Chocolate Wattled Bat
	Nyctophilus geoffroyi	Lesser Long-eared Bat
	Nyctophilus holtorum	Holt's Long-eared Bat
	Nyctophilus major	Greater Long-eared Bat
	Nyctophilus major tor	Central Long-eared Bat*
	Scotorepens balstoni	Inland Broad-nosed Bat
	Vespadelus baverstocki	Inland Forest Bat
	Vespadelus regulus	Southern Forest Bat
Dasyuridae	*Antechinomys laniger*	Kultarr
	Ningaui ridei	Wongai Ningaui
	Ningaui yvonneae	Mallee Ningaui
	Sminthopsis crassicaudata	Fat-tailed Dunnart
	Sminthopsis dolichura	Little Long-tailed Dunnart
	Sminthopsis gilberti	Gilbert's Dunnart
	Sminthopsis hirtipes	Hairy-footed Dunnart

Family	Species	Common Name
Burramyidae	*Cercartetus concinnus*	Southwestern Pygmy Possum
Macropodidae	*Macropus fuliginosus*	Western Grey Kangaroo
	Osphranter robustus	Euro
	Osphranter rufus	Red Kangaroo
Leporidae	*Oryctolagus cuniculus*	Rabbit
Muridae	*Mus musculus*	House Mouse
	Notomys mitchellii	Mitchell's Hopping Mouse
	Pseudomys albocinereus	Ash-grey Mouse
	Pseudomys bolami	Bolam's Mouse
	Pseudomys hermannsburgensis	Sandy Inland Mouse
	Pseudomys nanus	Western Chestnut Mouse

Table 8. Reptiles potentially found near the project area

Family	Species	Common Name
Agamidae	*Ctenophorus chapmani*	Chapman's Dragon
	Ctenophorus cristatus	Crested Dragon
	Ctenophorus fordi	Mallee Dragon
	Ctenophorus isolepis	Central Military Dragon
	Ctenophorus maculatus	Spotted Dragon
	Ctenophorus ornatus	Ornate Crevice Dragon
	Ctenophorus reticulatus	Western Netted Dragon
	Ctenophorus salinarum	Saltpan Dragon
	Ctenophorus scutulatus	Lozenge-marked Dragon
	Moloch horridus	Thorny Devil
	Pogona minor	Western Bearded Dragon
	Tympanocryptis cephalus	Pebble Dragon
	Tympanocryptis lineata	Lined Earless Dragon
Carphodactylidae	*Nephrurus laevissimus*	Smooth Knob-tail
	Nephrurus vertebralis	Midline Knob-tail
	Underwoodisaurus milii	Barking Gecko
Diplodactylidae	*Amalosia reticulata*	Reticulated Velvet Gecko
	Crenadactylus ocellatus	Clawless Gecko
	Diplodactylus conspicillatus	Fat-tailed Gecko
	Diplodactylus granariensis	Wheatbelt Stone Gecko
	Diplodactylus pulcher	Beautiful Gecko
	Hesperoedura reticulata	Reticulated Velvet Gecko
	Lucasium maini	Main's Ground Gecko
	Oedura marmorata	Marbled Velvet Gecko
	Rhynchoedura ornata	Beaked Gecko
	Strophurus assimilis	Goldfields Spiny-tailed Gecko
	Strophurus elderi	Jewelled Gecko
	Strophurus wellingtonae	Western Shield Spiny-tailed Gecko
Elapidae	*Acanthophis pyrrhus*	Desert Death Adder
	Acanthophis antarticus	Southern Death Adder*
	Brachyurophis semifasciata	Half-girdled Snake
	Demansia psammophis	Yellow-faced Whipsnake
	Furina ornata	Orange-naped Snake
	Neelaps bimaculatus	Black-naped Burrowing Snake
	Suta gouldii	Gould's Snake
	Suta monachus	Hooded Snake
	Pseudechis australis	Mulga Snake
	Pseudonaja affinis	Dugite
	Pseudonaja mengdeni	Western Brown Snake
	Pseudonaja modesta	Ringed Brown Snake
	Simoselaps bertholdi	Jan's Banded Snake
	Suta fasciata	Rosen's Snake
Gekkonidae	*Gehyra purpurascens*	Purplish Dtella
	Gehyra variegata	Variegated Gehyra
	Heteronotia binoei	Bynoe's Gecko
Pygopodidae	*Delma australis*	Marble-faced Delma
	Delma butleri	Unbanded Delma
	Delma fraseri	Fraser's Delma
	Lialis burtonis	Burton's Legless Lizard
	Pygopus lepidopodus	Common Scaly-foot
	Pygopus nigriceps	Western Hooded Scaly-foot
Pythonidae	*Morelia spilota*	Carpet Python
	Aspidities ramsayi	Woma*
Scincidae	*Cryptoblepharus australis*	Inland Snake-eyed Skink
	Cryptoblepharus buchananii	Buchanan's Snake-eyed Skink
	Ctenotus atlas	Southern Mallee Ctenotus
	Ctenotus brooksi	Wedgsnout Ctenotus
	Ctenotus leonhardii	Leonhardi's Ctenotus
	Ctenotus pantherinus	Leopard Ctenotus
	Ctenotus schomburgkii	Barred Wedgesnout Ctenotus

Family	Species	Common Name
	Ctenotus uber	Spotted Ctenotus
	Ctenotus xenopleura	Wide-striped Ctenotus
	Cyclodomorphus branchialis	Common Slender Bluetongue
	Cyclodomorphus melanops	Spinifex Slender Blue-tongue
	Egernia depressa	Southern Pygmy Spiny-tailed Skink
	Egernia formosa	Goldfields Crevice Skink
	Egernia richardi	Bright Crevice-skink
	Eremiascincus richardsonii	Broad-banded Sand-swimmer
	Hemiergis gracilipes	South-western Mulch-skink
	Hemiergis initialis	South-western Earless Skink
	Lerista kingi	King's Slider
	Lerista muelleri	Wood Mulch-slider
	Lerista picturata	Southern Robust Slider
	Lerista timida	Timid Slider
	Liopholis inornata	Desert Skink
	Liopholis striata	Nocturnal Desert Skink
	Menetia greyii	Common Dwarf Skink
	Morethia adelaidensis	Saltbush Morethia Skink
	Morethia butleri	Woodland Morethia Skink
	Morethia obscura	Shrubland Pale-flecked Morethia
	Tiliqua occipitalis	Western Blue-tongued Lizard
	Tiliqua rugosa	Bobtail
Typhlopidae	*Anilios australis*	Austral Blind Snake
	Anilios bicolor	Dark-spined Blind Snake
	Anilios bituberculatus	Prong-snouted Blind Snake
	Anilios hamatus	Pale-headed Blind Snake
Varanidae	*Varanus caudolineatus*	Stripe-tailed Monitor
	Varanus gouldii	Gould's Goanna
	Varanus tristis	Black-headed Monitor

These lists include species commonly found in mulga and eucalypt woodlands in the Goldfields.

4.3 CONSERVATION SIGNIFICANT FAUNA

Conservation significant fauna are protected by the Commonwealth *EPBC Act 1999*, and this list includes species covered by international treaties such as the Japan-Australia Migratory Bird Agreement (JAMBA) and China-Australia Migratory Bird Agreement (CAMBA) and the Western Australia (WA) *BC Act 2016*. The *BC Act 2016* provides for the publishing of the *Wildlife Conservation (Specially Protected Fauna) Notice* that lists species under multiple categories. In addition, DBCA maintains a list of fauna that require monitoring under four priorities based on the current knowledge of their distribution, abundance and threatening processes. The *EPBC Act 1999* and *BC Act 2016* imply legislative requirements for the management of anthropogenic impacts to minimise the effects of disturbances on species and their habitats. Priority species have no statutory protection, other than the DBCA wishes to monitor potential impacts on these species. Environmental consultants and proponents of developments are encouraged to avoid and minimise impacts on Threatened and Priority species. Definitions of the significant fauna under the *BC Act 2016* are provided in Appendix C.

The fauna species that have special status in either State or Commonwealth government legislation or are on the DBCA Priority species list and are potentially present in the vicinity of the project area are listed in Table 9. Although they were recorded in the search of the MNES online database, migratory species that typically would be found around the edge of salt lakes, clay pans, estuaries and marshes have been excluded from Table 9 as there is no suitable habitat nearby.

One threatened species of fauna (Malleefowl) identified under the *EPBC Act 1999* and *BC Act 2016*is likely to be in the project area or surrounds. Three other species (Peregrine Falcon - Schedule 7; Central Long-eared Bat – Priority 3; Western Rosella – Priority 4) potentially occur in the project area or surrounds. The following is an assessment of the likelihood of each of the species listed in Table 9 being found in the project area.

Table 9. Assessment of the potential presence of a conservation significant fauna species in the project area

Species	Status under Commonwealth EPBC Act	BC Act/ DBCA Schedule / Priority	Comment on the potential presence of a species
Night Parrot *Pezoporus occidentalis*	Endangered	Critically Endangered	Not present in the project area due to a lack of suitable habitat.
Grey Falcon *Falco hypoleucos*	Vulnerable	Vulnerable	Unlikely to be present
Malleefowl *Leipoa ocellata*	Vulnerable	Vulnerable	Recently active Malleefowl mounds recorded, so Malleefowl are probably in the project area
Chuditch *Dasyurus geoffroii*	Vulnerable	Vulnerable	Unlikely to be present
Fork-tailed Swift *Apus pacificus*	Migratory	Migratory	May infrequently be seen flying in the region.
Grey Wagtail *Motacilla cinerea*	Migratory	Migratory	Highly unlikely to be seen in the project area.
Peregrine Falcon *Falco peregrinus*		OS	May very infrequently be seen in the project area.
Central Long-eared Bat *Nyctophilus major tor*		Priority 3	Potentially in the project area but will move when disturbed and any impacts are likely to be non-significant.
Western Rosella *Platycercus icterotis xanthogenys*		Priority 4	Potentially in the project area but will move when disturbed and any impacts are likely to be non-significant.
Southern Death Adder *Acanthophis antarcticus*		Priority 3	Very low possibly it is in the project area, and if present in the areas to be cleared would be lost during vegetation clearing.
Woma *Aspidites ramsayi*		Priority 4	Very low possibly it is in the project area, and if present in the areas to be cleared would be lost during vegetation clearing.

Results of the Commonwealth *EPBC Act 1999* protected matters database search is provided in Appendix A.

Night Parrot (*Pezoporus occidentalis*) - Critically Endangered under the *BC Act 2016* and Endangered under the *EPBC Act 1999*

The Night Parrot is a small, arid-adapted, nocturnal, ground-feeding parrot (Johnstone and Storr 1998, Threatened Species Scientific Committee 2016). Its length is 22-25cm with a body mass of approximately 104g (Threatened Species Scientific Committee 2016), although it was suggested that they were semi-nomadic, the Night Parrots in south-western Queensland appear to be sedentary (Murphy 2015).

The Night Parrot was probably originally distributed over much of semi-arid and arid Australia (Garnett et al. 1993, Threatened Species Scientific Committee 2016). Records in north-west and western Queensland in the early 1990-2000s were in a broad cross section of the habitats available (Garnett et al. 1993, Cupitt and Cupitt 2008, Boles et al. 2016). There have been recent sightings in the Pilbara in 1980, 2005 and 2017, central WA in 1979, north-eastern South Australia in 1979, western Queensland (including Pullen-Pullen-Mt Windsor-Diamantina population) in 1980, 1990, 1993, 2006 and 2013-17 (Davis and Metcalf 2008, Garnett et al. 2011,

Charalambous 2016, Pickrell 2016, AG staff 2017, Palaszxzuk and Miles 2017, Rykers 2017, AG staff 2018), Pilbara in 2017 (Jones 2017) and the northern Goldfields (Jackett et al. 2017). Garnett et al. (2011) suggested that there were between 50-250 mature individuals in less than 5% of its previous range.

Wilson's (1937) summary of observations provided information on the early records of Night Parrots' preferred habitat and breeding sites. Recent information indicates its preferred habitat appears to be in Triodia grasslands, chenopod shrublands, shrubby samphire and floristically diverse habitats dominated by large-seeded species (Threatened Species Scientific Committee 2016, McCarthy 2017, Murphy et al. 2017b). At Pullen Pullen Reserve it nests in large, more or less ring-shaped Triodia, and the nest consists of a tunnel (25-30º and 0º to the ground; 20-33cm long) through an apron of dead spinifex leaves that leads to a chamber under a live hummock, with a shallow depression (3-4cm) excavated into the gravelly/sandy soil (Murphy et al. 2017a). In the northern Goldfields the nest was again in a spinifex hummock, it was circular, with an excavated depression (~1.5-2.0cm) in sandy substrate (Hamilton et al. 2017, Jackett et al. 2017). The entrance tunnel was 62cm long, and was downward sloping (27º) with the entrance 28cm above the ground (Hamilton et al. 2017). It has clutches of two to four sub-elliptical, white eggs with a lustrous appearance (Murphy et al. 2017a). Breeding followed significant rains in March for the observations in Pullen-Pullen Reserve and in April in the northern Goldfields (Hamilton et al. 2017, Murphy et al. 2017a), but it is thought that breeding generally occurs between April and October (Murphy et al. 2017a).

Murphy et al. (2017b) placed a GPS tag on Night Parrots and reported that the two birds called at dusk from their diurnal roosts among spinifex hummocks and then flew to more floristically diverse habitats dominated by large-seeded, prolifically seeding species to feed.

There are very few mature spinifex hummocks in the project area, and they are in low density and relatively low in height. There is also a reasonably high density of feral fauna. As the preferred roosting and nesting sites for Night Parrots are not present in the project area and there is a significant threatening process for the species in the area (i.e. feral cats), it is highly unlikely Night Parrots are present in the project area. They will therefore not be impacted by any proposed development.

Malleefowl (*Leipoa ocellata*) - Vulnerable under the *BC Act 2016* and *EPBC Act 1999*

Malleefowl are large, ground-dwelling birds that rarely fly unless alarmed or are perching for the night. Historically, Malleefowl have been found in mallee regions of southern Australia from approximately the 26th parallel of latitude southwards. Prior to vegetation clearing for agriculture, Malleefowl were abundant in the WA Wheatbelt. Vegetation clearing for agriculture also opened adjacent bushland to predators, and in the south-west of WA, Malleefowl often only persist in isolated remnant patches of native vegetation. Sheep and other herbivores (e.g. goats, kangaroos) grazing in remnant vegetation removes or thins the undergrowth, and they also compete with Malleefowl for herbaceous foods and can cause changes to the structure and floristic diversity of foraging habitats (Benshemesh 2007).

Malleefowl and their eggs are vulnerable to predation by foxes, and newly hatched chicks are vulnerable to foxes, cats and raptors (Priddel and Wheeler 1990, Benshemesh and Burton 1999, Benshemesh 2007, Lewis and Hines 2014). Their abundance in the Goldfields is low and they are sparsely distributed, favouring those areas that are more densely vegetated. Malleefowl build distinctive nests that comprise a large mound of soil/rock covering a central core of leaf litter. These nest mounds range in diameter but can span more than five metres and may be up to one metre high. Malleefowl are generally monogamous and once breeding commences they pair for life. The presence of nest mounds provides an indication of the presence of Malleefowl in the area.

Recently active Malleefowl mounds were recorded in the project area, so it is probable that there is a very low density of Malleefowl in the project area.

Grey Falcon (*Falco hypoleucos*) – Vulnerable under the *BC Act 2016* and *EPBC Act 1999*.

This is Australia's rarest falcon, and it is mostly found in areas of less than 500mm rainfall north of latitude 26°S in Western Australia (Schoenjahn et al. 2019, Threatened Species Scientific Committee 2020). It is mostly found in timbered lowland plains, particularly *Acacia* shrublands that are crossed by tree-lined water courses (Threatened Species Scientific Committee 2020). However, this species has been observed in treeless areas and frequents tussock grassland and open woodland (Threatened Species Scientific Committee 2020).

This species was not seen during the site visit, has not been recorded in other fauna surveys in the project or adjacent areas, and if it was present, would move away once disturbed.

Chuditch (*Dasyurus geoffroii*) – Vulnerable under the *BC Act 2016* and *EPBC Act 1999*

The Chuditch is the largest extant carnivorous marsupial in WA. It is usually active from dusk to dawn. Formally known from over 70% of Australia, the Chuditch now has a patchy distribution throughout the Jarrah forest and mixed Karri/Marri/Jarrah forest of south-west WA and other isolated areas. The closest known recent populations of Chuditch are over 100km south-west of the project area.

Chuditch are solitary animals for most of their life and den in hollow logs, burrows, culverts, etc. and have also been recorded in tree hollows and rock cavities. Chuditch are opportunistic feeders, and forage primarily on the ground at night. Their diet can include other mammals, birds, lizards, bird and reptile eggs but the majority is a mixture of large invertebrates (e.g. spiders, scorpions and crickets).

None of the fauna surveys in the project or adjacent areas have recorded the presence of Chuditch, and the presence of feral predators indicates that it is unlikely to be present in the project area.

Fork-tailed Swift (*Apus pacificus*) - Migratory species under the *EPBC Act 1999* and *BC Act 2016*

This species breeds in the northeast and mid-east Asia and winters in Australia and southern New Guinea. It is a visitor to most parts of Western Australia, beginning to arrive in the Kimberley in late September, in the Pilbara in November and in the southwest land division in mid-December, and leaving by late April. The Fork-tailed swift is an almost exclusively an aerial species, foraging and sleeping on the wing. It rarely comes to earth, usually only for breeding. It is common in the Kimberley, uncommon to moderately common near northwest, west and southeast coasts and rare to scarce elsewhere. It is rarely seen in the Goldfields (Plate 50), so it is unlikely to be impacted by the proposed development. It was not present in the DBCA's threatened species database search.

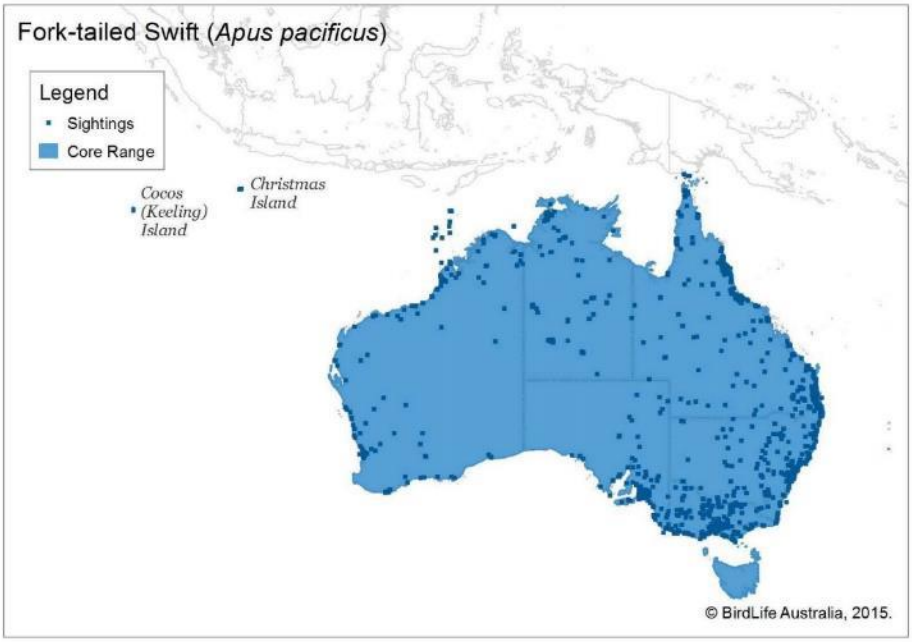


Plate 50. Range and actual reported sightings of the Fork-tailed Swift

(taken from http://www.environment.gov.au/biodiversity/threatened/publications/epbc-act-referral-guidelines-migratory-birds)

Peregrine Falcon (*Falco peregrinus*) - Otherwise specially protected under the *BC Act 2016*

The Peregrine Falcon is uncommon, although widespread throughout much of Australia excluding the extremely dry areas and has a wide and patchy distribution. It shows habitat preference for areas near cliffs along coastlines, rivers and ranges and within woodlands along watercourses and around lakes. Nesting sites include ledges along cliffs, granite outcrops and quarries, hollow trees near wetlands and old nests of other large bird species. There is no evidence to suggest any change in status in the last 50 years.

The Peregrine Falcon may infrequently be seen in the project area, although it had not been recorded in other surveys. The proposed development is unlikely to have a significant impact on this species as it will readily move away from disturbance and there are abundant areas of similar habitat in the region.

Central Long-eared Bat (*Nyctophilus major tor*) – Priority 4 with the DBCA

This species is probably the species referred to by Churchill (2008). Online web references also call this the Western Long-eared Bat. Records in the Atlas of Living Australia indicated this species has been found around in the general area. It roosts in tree cavities, foliage and under loose bark, so it is potentially in the project area.

Given that project area represents a small fraction of similar habitat in the general area, vegetation clearing in the project area is unlikely to have a significant impact on this species.

Western Rosella (*Platycercus icterotis xanthogenys*) – Priority 4 with the DBCA

The mallee form of the Western Rosella is found mostly in eucalypt and *Casuarina* woodland and shrub lands, especially Wandoo, Flooded Gums and Salmon Gums. This species was sighted by Dames and Moore (1999) around Lake Lefroy, Outback Ecology Services (2009) at Randalls, Dell and How (1984) in the biological survey of Widgiemooltha, Phoenix Environmental Services (2014) at Bullabulling, Keighery et al. (1995) in the survey of Boorabbin-Southern Cross survey and Barrett (1991) at Victoria Rock, so it could infrequently be recorded in the project area.

Given that the project area represents a small fraction of similar habitat in adjacent areas, it is unlikely that vegetation clearing will have a significant impact on this species, as it will readily move to adjacent areas if disturbed.

Southern Death Adder (*Acanthophis antarcticus*) - Priority 3 species with DBCA

The Southern Death Adder is found in variety of habitat from rainforest, shrublands and heaths. The distribution map in the Atlas of Living Australia indicates that they have not been recorded around the project area.

Therefore, it is highly improbable the Southern Death Adder is present in the project area and therefore impacted by the proposed development.

Woma (*Aspidites ramsayi*) - Priority 1 species with DBCA

The southern Woma python was once recorded in a crescent shaped geographic distribution from Shark Bay to Kitchener in WA. However, it is now mostly only found on the two extremes of this distribution with a small population east of the wheatbelt in relatively dense shrubs on a sandy substrate.

In Western Australia it is found in arid woodland or shrubland areas, typically on sand plains. It has not been recorded recently near the project area, so it is highly improbable the Woma python is present in the project area and therefore impacted by the proposed development.

5. DISCUSSION

5.1 ADEQUACY OF THE FAUNA SURVEY DATA FOR FAUNA HABITATS REPRESENTED IN THE PROJECT AREA

The EPA's (2020) Technical Guidance on terrestrial fauna surveys indicated that the type of survey should be determined based on:

- level of existing regional knowledge;
- type and comprehensiveness of recent local surveys;
- degree of existing disturbance or fragmentation at the regional scale;
- extent, distribution and significance of habitats;
- significance of species likely to be present;
- sensitivity of the environment to the proposed activities; and
- scale and nature of impact.

The comprehensive fauna survey undertaken by Thompson (2004) in similar habitat, albeit approximately 70km to the north-north-east, provides a near complete list of the small trappable vertebrate fauna species that would be in the project area. In addition, Western Australian Museum and the State Conservation Department's Goldfields surveys for the Boorabbin – Southern Cross study area (Keighery et al. 1995), the Goldfields Reserves (Chapman et al. 1991) and Phoenix Environmental Services (2014) survey of Bullabulling also provide useful fauna assemblage data relevant to the project area. A Detailed vertebrate fauna survey of the project area is unlikely to provide information on any additional species and therefore alter the impact assessment for the proposed development, so no additional generic fauna surveys are recommended.

5.1.1 Amphibians

Amphibians typically found in eucalypt mulga-mallee woodlands in the Goldfields are listed in Table 6. Frogs are normally only detected immediately after rainfall or around semi-permanent pools. It is likely that *Neobatrachus sutor*, *Pseudophryne occidentalis* and *Neobatrachus kunapalari* could be found in the general area. These species, other than *P. occidentalis*, burrow into the ground and aestivate between rainfall events. *Pseudophryne occidentalis* find shelter under rocks and in crevices during the dry periods and enter temporary ponds to breed after major rainfall events. All four species have a wide-spread distribution and are abundant. Development of the project area is likely to result in a loss of individuals within the disturbed area, however, is unlikely to have a significant impact on these species when assessed in a regional context.

There are no conservation significant amphibians in the Goldfields.

5.1.2 Reptiles

Reptile species richness in the project area will be comparable with similar eucalypt woodlands elsewhere in the bioregion. The list provided in Table 8 represents species likely to be found over a large area of diverse habitat types. Eucalypt-mulga woodlands over a spinifex understorey would typically support up to 40 species of reptiles, but many of these would be in low abundance. There are no characteristics of the reptile assemblage anticipated to be in the project area that indicated that there are reptiles of conservation significance or different to that in the neighbouring areas and given that there were large expanses of similar habitat in adjacent areas, development of the project area is unlikely to have significant impact on reptiles when assessed in a regional context.

Fauna habitats in the project area are likely to be similar to that in the adjacent areas, so the loss of reptiles during vegetation clearing is unlikely to be significant in a bioregional context.

5.1.3 Birds

Avian species richness in the Goldfields is influenced by rainfall (Craig and Chapman 2003) and is generally higher in woodlands compared with chenopod shrublands and more sparsely vegetated areas. The list provided in Table 5 represents species likely to be found over a large area of diverse habitat types. Eucalypt and mallee woodlands would typically support up to 50-70 species of birds, but many of these would be in very low numbers and are only present after significant rainfall. Birds typically move from an area once vegetation clearing commences, so the impact is relatively low if the area is small. However, eggs and chicks in nests are often lost during the clearing process.

Semi-arid and arid areas of inland Australia support a diverse range of transient and nomadic species that move through large areas in search of available resources. Heavy rain that is followed by flowering and seeding of many plant species is often sufficient to draw many of these nomadic species to the general area. These species move on to other areas once the resource is depleted or better resources are available in adjacent areas.

Predation by feral cats and foxes has significantly reduced the abundance of Malleefowl in the Goldfields and there are a few remaining small populations, mostly in areas of dense shrubland, as the dense vegetation provides the adult birds with some protection from predators. There are recently active Malleefowl mounds in the project area, so they are likely to be in very low abundance in the area.

The Western Rosella and Peregrine Falcon, if present, would move to adjacent areas if disturbed. Many of the arid adapted birds are nomadic and move around the arid interior often in search of water and resources and the Peregrine Falcon will normally have a very large home range. Development of the project area, particularly when similar habitat exists in the adjacent areas, is unlikely to significantly impact on any conservation significant species of bird. All birds will readily shift to other areas when there is a disturbance.

Terrestrial Ecosystems' view is that the proposed development is unlikely to significantly impact on the avian fauna of the bioregion.

5.1.4 Mammals

The diversity of small terrestrial mammals potentially caught in the project area would be low due to the sparsely vegetated and degraded habitat and presence of feral and pest fauna. None of the mammals potentially found in the project area are of conservation significance and the loss of small mammals during vegetation clearing is unlikely to be significant in a bioregional context.

It was noted during the site visit that rabbits and wild dogs are in the project area and surrounds, and there is a small population of horses in the project area.

Terrestrial Ecosystems' view is that the development of the project area is unlikely to significantly impact on the mammal fauna of the bioregion.

5.2 BIODIVERSITY VALUE

An ecological assessment of a site should consider its biodiversity value at the genetic, species and ecosystem levels, and its ecological functional value at the ecosystem level. There are inadequate data to assess the ecological value at the genetic level, however, this is not an issue as there are no conservation significant species potentially in the project area that require this level of analysis.

Fauna habitat represented in the project area is abundant and in similar condition in adjacent areas. Therefore, the fauna assemblage that is present in the project area will also be present in adjacent areas. The available

fauna survey data (Appendix C) provides an indication of the vertebrate fauna that are potentially in the project area.

5.2.1 Ecological functional value at the ecosystem level

Large sections of the project area have been disturbed by previous mining and exploration activity, with the consequence that these areas are almost depleted vertebrate terrestrial fauna. The quality of the rehabilitated areas varied significantly, and often as occurs in the Goldfields, the vegetation communities present in the rehabilitated areas do not match vegetation communities in the adjacent area, so there are limited opportunities for many vertebrate species to recolonise the rehabilitated areas. Other than these areas of disturbance, the most significant impact on vertebrate fauna in the project area and surrounds will have been feral cats, foxes and wild dogs.

This project area supports Malleefowl but does not support a conservation significant ecosystem.

5.2.2 Maintenance of threatened ecological communities

Other than the probable presence of Malleefowl, there are no threatened vertebrate ecological communities were identified in the project area.

5.2.3 Condition of fauna habitat

Phoenix Environmental Sciences (2014) indicated that the condition of the vegetation ranged from completely degraded to excellent. Areas previously cleared for mining and exploration are of little value for vertebrate fauna. There is also evidence of disturbance by rabbits and wild dogs, and it is probable there is a low abundance of foxes and possibly cats.

Our assessment is that the uncleared fauna habitat present in the project area is generally in good to excellent condition and similar to many square kilometres of adjacent habitat. The clearing of vegetation is therefore unlikely to have a significant impact on the vertebrate fauna when considered in a bioregional context.

5.2.4 Ecological linkages

The project area does not provide an important ecological linkage or fauna movement corridor as the surrounding bioregion is largely intact.

5.2.5 Size and scale of the proposed disturbance

The project area is substantial (i.e. 2529.3ha), but approximately 550ha has been degraded by previous mining and exploration activity. Although large, the project area represents a very small proportion of similar fauna habitat found in the adjacent areas and bioregion.

5.2.6 Abundance and distribution of similar habitat in the adjacent areas

Fauna habitats present in the project area are abundant in adjacent areas. It is therefore likely that the fauna assemblage in the project area is similar to the many square kilometres of similar habitat in adjacent areas and the bioregion.

6. POTENTIAL ENVIRONMENTAL IMPACTS

Development of the area will potentially affect vertebrate fauna in numerous ways, including death/injury of fauna during vegetation clearing, impacts with vehicles and the loss of habitat.

Although there are anticipated short term impacts on fauna, they are not likely to result in significant impacts on fauna habitat and fauna assemblages in the long term. The overall impact on fauna species and species of conservation significance will be minimal provided the recommended management procedures are implemented and adhered to.

6.1 DIRECT IMPACTS

6.1.1 Animal deaths during the clearing process and displacement of fauna

Clearing vegetation and activities associated with the development will result in the loss of some small fauna that retreat to burrows, such as reptiles and mammals. Nocturnal species are unlikely to be active when most of the land clearing and construction work is taking place which may result in these individuals being adversely impacted when they attempt to escape. This loss of vegetation is unlikely to have a significant impact when considered in a bioregional context. Larger terrestrial animals and avian species will most often move to adjacent areas. These species will be required to establish new activity areas and home ranges, and this could result in the temporary displacement of resident species.

6.1.2 Reduction or loss of activity areas and closure of burrows

Clearing vegetation and associated development activities are likely to remove reptile and mammal burrows or foraging habitat that are currently in use or could be used again. Clearing vegetation that forms part of the activity area of individuals has the potential to force these animals into adjacent areas. These areas may offer fewer resources placing individuals under survival pressure. It could also cause individuals to move into the territories of other individuals increasing competition for resources. Forced relocations could increase the possibility of predation.

6.1.3 Uncapped drill holes

Uncapped drill holes can pose a serious threat to small animals, including ground dwelling reptiles, frogs and small mammals as they act as pit traps and fauna can get caught (Chapman 1991). During the field assessment the zoologists collapsed or closed a small number of historical exploration drill holes that were open.

6.2 INDIRECT IMPACTS

6.2.1 Edge effects

Clearing linear corridors and other large areas increases fauna habitat edges. Small mammals can respond both positively and negatively to edges depending on their ecological traits (Laurance 1991, 1994, Goosem and Marsh 1997, Goosem 2000). Edge and disturbance effects can lead to altered and most often higher levels of predation, restricting or increasing fauna movements and altering assemblage structure (Oxley et al. 1974, Paton 1994, Baker et al. 1998, Temple 1998, Luck et al. 1999, Goosem et al. 2001).

Goldingay and Whelan (1997) and Clarke and Oldland (2007) reported that edge effects can extend up to 150-200m from the edge for some species, meaning the impact area on vertebrate fauna is likely to be larger than the cleared footprint.

Edge effects can lead to the disruption of ecological processes such as predation and dispersal, animal movements and can change assemblage structure. The consequence is that the impact area will always be much larger than the cleared area. Some portions of the project area are fragmented and will be impacted by edge effects more than the relatively intact sections. If further exploration was to occur requiring the clearing of exploration tracks, the impact of edge effects would increase.

6.2.2 Habitat fragmentation

In addition to direct impacts of vegetation clearing, infrastructure including tracks, has the potential to fragment habitat. Cleared land is 'unnatural' in much of the habitat. These clearings can isolate sections of established communities and may alter long and medium-term patterns of movement around established home ranges particularly for small mammals and reptiles. A reduction in the population because of vegetation clearing would be difficult to detect given our current knowledge of the spatial ecology for most of the small mammals known to be in the area. Currently the impact of habitat fragmentation is relatively low, however, if exploration was to proceed it is likely there would be an increase in exploration tracks and consequential increase in fragmentation.

6.2.3 Introduced fauna and weeds

Increased habitat fragmentation and human activity often results in an increase in the abundance of introduced species such as the house mice (*Mus musculus*), feral cats (*Felis catus*) and wild dogs (*Canis lupus*). This increase may be due to a decline in habitat health, increased road kills, poor disposal of waste and easier access to areas via tracks. In highly fragmented environments these impacts can be far more significant than the actual loss of habitat. The project area is relatively intact, however, if exploration was to proceed the habitat fragmentation could increase which could increase the impact(s) of introduced fauna and weeds.

House mice, feral cats, foxes and wild dogs are known to be established in the area. In many situations they have become a 'naturalised' species in the Australian bush. Increases in dog or cat numbers can have a detrimental impact on native fauna because they predate on and compete with native species, severely disrupting the natural balance. The feral cat is a particularly damaging predator on native fauna and any increase in their numbers could have a detrimental effect on local native fauna (Kinnear 1993, Bamford 1995, Woinarski et al. 2017, Woinarski et al. 2018, Murphy et al. 2019); hence it is important to ensure that populations of the feral predators, such as cats are under control.

Infrastructure known to support feral species, such as rubbish disposal sites and bins, and permanent water should be managed to minimise increases in these populations.

Introduced plant species can successfully and rapidly invade areas of cleared native vegetation or otherwise disturbed by humans. Introduced plant species may replace native species that provide shelter or foraging areas for native fauna. Major changes to the structure of vegetation will alter the fauna habitat and consequently may influence fauna species composition. Preparing and implementing a weed management plan will largely reduce their threat to native fauna species.

6.2.4 Road fauna deaths

An increase in road fauna deaths is likely to occur where new roads / tracks are constructed or upgraded, in particular, affecting kangaroos, nocturnal birds and ground dwelling large carnivorous predators. Species such as goannas and raptors are attracted to carrion on road verges and therefore, there is an increased propensity for these species to be killed by vehicles. Given the size of the project area, the impacts of road fauna deaths are likely to be low.

6.2.5 Fire

Increased human activity is often associated with an altered fire regime which leads to a degradation of natural ecosystems. Fire has been identified as one of the threatening processes for some conservation significant species as numerous small mammal and bird species rely on long unburnt vegetation.

The sparseness of vegetation in many areas would indicate that any fire would result in a mosaic burn pattern and impacts are therefore likely to be short-term, once the vegetation has regenerated post-fire.

6.2.6 Anthropogenic activity

Unnatural noises, vibrations, artificial light sources, and vehicle and human movement in an area may be sufficient to force individuals or fauna species to move from adjacent areas or alter their activity periods. This form of disturbance is likely to occur during the initial vegetation clearing and when development activity commences. The overall impact is likely to be confined to a relatively small area and is unlikely to be a significant impact.

6.2.7 Dust

Dust generated from shifting topsoil and increased vehicle traffic can potentially degrade surrounding vegetation, reducing its ability to absorb sunlight and influencing photosynthetic rates. Degradation of these areas may potentially render habitat unsuitable for fauna. Dust suppression and management programs are an essential component of minimising impacts on fauna in areas adjacent to the mine. The current impacts of dust are low, however, an increase in activity and vehicle traffic could increase the amount of dust on site. An effective dust management and monitoring program is required.

6.2.8 Potential impacts on ecosystem function

Clearing native vegetation is likely to result in the loss of small vertebrate fauna on-site that are unable to move away during the clearing process. The few larger animals, such as kangaroos and large goannas, and most of the birds will move into adjacent areas once clearing commences. Shifting animals into adjacent areas will increase the pressure on resources in those areas and it is likely that there will be some disruption to the ecosystems in these areas for a short period until a balance is restored.

Impacts associated with clearing vegetation and development in the project area in a landscape or bioregional context on the vertebrate fauna are likely to be low as the proposed disturbance area is small relative to the quantity of similar habitat in the bioregion.

6.2.9 Risk assessment

Fauna surveys to support environmental approval are part of the environmental risk assessment undertaken to consider what potential impacts a development might have on the biodiversity on a particular area and region. Potential impacts on fauna from the proposed development are identified and briefly described above. Tables 10, 11 and 12 provide a summary of the risk assessment associated with this project.

Any risk assessment is a product of the likelihood of an impact occurring and the consequences of that impact. Likelihood and consequences are categorised and described below. The assessed risk level (likelihood x consequences) is then calculated as the overall risk for the development. This is followed by an assessment of the acceptability of the risk associated with each of the impacts. Disturbances and vegetation clearing have an impact on the fauna at multiple scales – site, local, landscape and regional. Each of these is considered in the risk assessment. This assessment should be considered in the context of the summary in Table 12.

Table 10. Fauna impact risk assessment descriptors

Likelihood		
Level	Description	Criteria
A	Rare	The environmental event may occur, or one or more conservation significant species may be present in exceptional circumstances.
B	Unlikely	The environmental event could occur, or one or more conservation significant species could be present at some time.
C	Moderate	The environmental event should occur, or one or more conservation significant species should be present at some time.
D	Likely	The environmental event will probably occur, or one or more conservation significant species will be present in most circumstances.
E	Almost certain	The environmental event is expected to occur, or one or more conservation significant species is expected be present in most circumstances.
Consequences		
Level	Description	Criteria
1	Insignificant	Insignificant impact on fauna of conservation significance or regional biodiversity, and the loss of individuals will be insignificant in the context of the availability of similar fauna or fauna assemblages in the area.
2	Minor	Impact on fauna localised and no significant impact on species of conservation significance in the project area. Loss of species at the local scale.
3	Moderate	An appreciable loss of fauna in a regional context or a limited impact on species of conservation significance in the project area.
4	Major	Significant impact on conservation significant fauna or their habitat in the project area and/or regional biodiversity and/or a significant loss in the biodiversity at the landscape scale.
5	Catastrophic	Loss of species at the regional scale and/or a significant loss of species categorised as 'vulnerable' or 'endangered' under the EPBC Act (1999) at a regional scale.
Acceptability of Risk		
Level of risk	Management Action Required	
Low	No action required.	
Moderate	Avoid if possible, routine management with internal audit and review of monitoring results annually.	
High	Externally approved management plan to reduce risks, monitor major risks annually with external audit and review of management plan outcomes annually. May a referral to the Commonwealth under the EPBC Act 1999.	
Extreme	Unacceptable, project should be redesigned or not proceed.	

Table 11. Levels of acceptable risk

		Likelihood				
		Rare or very low (A)	Unlikely or low (B)	Moderate (C)	Likely (D)	Almost certain (E)
Consequence	Insignificant (1)	Low	Low	Low	Low	Low
	Minor (2)	Low	Low	Low	Moderate	Moderate
	Moderate (3)	Low	Moderate	Moderate	High	High
	Major (4)	Moderate	Moderate	High	High	Extreme
	Catastrophic (5)	Moderate	High	High	Extreme	Extreme

Table 12. A risk assessment of the impact of ground disturbance activity on fauna

			Before management				With management		
	Potential impacts		**Inherent risk**			**Risk controls**	**Residual risk**		
Factor			Likelihood	Consequence	Significance		Likelihood	Consequence	Significance
Fauna survey data	Inadequate survey data to adequately assess the risks	Unknown loss of fauna, fauna of conservation significance, and fauna assemblages, and an incomplete fauna assessment.	B	2	Low				
	Inadequacy of comparative data	Limits on the availability of comparative data reduced the capacity to assess the uniqueness of the fauna assemblages in the project area.	B	2	Low				
Clearing vegetation	Loss of fauna habitat – local scale	Loss of terrestrial fauna in the project area.	E	2	Mod	Where possible, reduce the extent of clearing and leave large Eucalypt trees.	E	2	Mod
	Loss of fauna habitat – landscape scale	Loss of some fauna during vegetation clearing.	B	1	Low				
	Loss of fauna habitat – regional scale	Small loss of some fauna from the region.	B	1	Low				
	Loss of a threatened ecological fauna community	Loss of an undetected threatened ecological fauna community.	A	3	Low				
	Habitat fragmentation	Fauna movement restricted resulting in the death of fauna and a loss of biodiversity.	A	2	Low				
Death or loss of conservation significant fauna	Loss of a unique terrestrial fauna ecosystem	Loss of an ecosystem containing fauna with high species richness, high abundance and numerous top of the food chain predators.	A	2	Low				
	Night Parrot	Loss of a Night Parrot or small population of Night Parrots	A	3	Low				
	Malleefowl	Loss of a Malleefowl or small population of Malleefowl	C	4	High	Avoid malleefowl mounds and prefered habitat areas	B	2	Low
	Chuditch	Loss of a Chuditch or small population of Chuditch	A	2	Low				
	Grey Falcon	Loss of a Grey Falcon or small population of Grey Falcon	A	2	Low				

			Before management				With management		
	Western Rosella	Loss of a Western Rosella or small population of Western Rosella	A	2	Low				
	Central Long-eared Bat	Loss of a Central Long-eared Bat or small population of Central Long-eared Bat	B	2	Low				
	Oriental Plover	Loss of a Oriental Plover or small population of Oriental Plover	A	2	Low				
	Fork-tailed Swift	Loss of a Fork-tailed Swift or small population of Fork-tailed Swift	A	2	Low				
	Grey Wagtail	Loss of a Grey Wagtail or small population of Grey Wagtail	A	2	Low				
	Peregrine Falcon	Loss of a Peregrine Falcon or small population of Peregrine Falcon	A	2	Low				
Human impacts	Increase or spread of weeds	Changed vegetation and a resulting loss of fauna habitat.	E	2	Mod	Implementation of a weed management plan.	D	2	Low
	Road kills	Animals being killed by vehicles as they cross roads	E	1	Low	Limiting speeds	E	1	Low
	Increase in feral fauna; specifically the fox, wild dog and cat	Increased predation on the native fauna	C	3	Mod	Implementation of a feral animal control program(s)	C	2	Low
	Dust	Increased potential for dust	E	2	Mod	Implementation of a dust management plan.	C	2	Low

6.3 NATIVE VEGETATION CLEARING PRINCIPLES AS THEY PERTAIN TO VERTEBRATE FAUNA

The *Environmental Protection Act (1986)* outlines 10 principles that are to be used in the assessment of native vegetation clearing permit applications which are also applicable for other assessments and approvals (Table 13). Where possible, native vegetation should not be cleared if any of the following principles are comprised.

Table 13. Assessment of impact using the native vegetation clearing principles

Principle	Response
It comprises a high level of biological diversity.	The presence of Malleefowl means that this species could potentially be impacted without appropriate management.
It comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.	Malleefowl are in low abundance and widely dispersed in the Goldfields. Any loss of individuals would be regrettable, and every effort should be made to minimise the possibility of this occurring.
It includes, or is necessary for the continued existence or, rare flora.	N/A
It comprises the whole or a part of, or is necessary for the maintenance of, a threatened ecological community.	The project area does not include habitat, that if it was lost would threaten the survival of Malleefowl, but given this species' low abundance in the Goldfields, all populations of Malleefowl should be managed and conserved.
It is significant as a remnant of native vegetation in an area that has been extensively cleared.	The area contains no remnant vegetation communities that are significant.
It is growing in, or in association with, an environment associated with a watercourses or wetland.	There is no water course or wetland near the project area, other than ephemeral creek lines.
The clearing of the vegetation is likely to cause appreciable land degradation.	N/A
The clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.	Clearing of vegetation is unlikely to impact on the environmental values of the bioregion.
The clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.	N/A
The clearing of the vegetation is likely to cause, or exacerbate the incidence of flooding.	N/A

6.4 REFERRAL UNDER THE EPBC ACT

As discussed above, the project area does not support old growth spinifex with a structure which is used as both retreat and nesting sites by the Night Parrot, so it is highly unlikely this species is present.

Malleefowl are probably present in the project area, however, that does not automatically mean a referral under the *EPBC Act* is required. Such a referral is only necessary if the proposed vegetation clearing, development and intended mining operations were potentially going to have a significant impact on this species. Additional

information about the disturbance area and proposed activities are a required before a judgement on potential impacts can be made.

Additional information is therefore required before a recommendation can be made on whether a referral under the *EPBC Act 1999* is required.

7. SUMMARY

The total assessed project area is 2529.3ha, with approximately 550ha already highly disturbed by previous mining and exploration mining activity. There are four broad fauna habitats: Acacia shrubland thickets, mixed Eucalypt woodland with and without an understorey of shrubs, mallee woodland; and rehabilitated areas with or without Eucalypt woodland over chenopods in addition to those areas that have already been disturbed and largely devoid of vegetation.

The site investigation recorded recently used Malleefowl (listed as Vulnerable) mounds, so they are likely present in very low abundance. There is a possibility that the Peregrine Falcon (listed as other specially protected fauna), the mallee form of the Western Rosella (Priority 4) and the Central Long-eared Bat (Priority 4) may infrequently be seen in the project area. Except for the Malleefowl, vegetation clearing and mining activities are unlikely to significantly impact on these threatened species as they will readily move to adjacent areas if disturbed. The area supports a very small area of old growth spinifex, but it is insufficient and not of a suitable structure to provide roosting, foraging or nesting habitat for Night Parrots or a unique fauna assemblage.

Clearing native vegetation in the project area is likely to result in the loss of small vertebrate fauna on-site that are unable to move away during the clearing process, however, this loss is not likely to be significant when viewed in a bioregional context. The few larger animals, such as kangaroos, large goannas and snakes, and most of the birds will move into adjacent areas once vegetation clearing commences, so potential impacts will be low. There may be an on-going loss of small native fauna to vehicle strikes on access tracks, but overall, this impact will be low. Forced fauna migrants resulting from vegetation clearing will increase competition for resources, which may result in the subsequent loss of migrants or local individuals. Individuals shifted out of their established activity areas are also vulnerable to predation until they have become established in their new areas.

Impacts on vertebrate fauna associated with clearing vegetation in the project area in a landscape or bioregional context are likely to be low as there are vast tracts of similar fauna habitat in adjacent areas.

Feral predators such as wild dogs and feral cats and possibly foxes are present on site and likely, in a landscape context, to have a much larger impact on the vertebrate fauna than clearing the vegetation or the recommencement of mining and processing activities in this location.

Additional information about the disturbance area and proposed activities are a required before a judgement on potential impacts on Malleefowl can be made and a recommendation provided on whether the proposed Action should be referred to the Commonwealth Government under the *EPBC Act*.

8. MANAGEMENT STRATEGIES

The purpose of this section is to identify generic management and mitigation strategies to address the potential impacts of development in the project area. Specific management and mitigation strategies to address potential impacts should be addressed in the recommended Vertebrate Fauna Management Plan and Construction Environmental Management Plan.

8.1 INDUCTION AND AWARENESS

All contractors and staff involved in vegetation clearing, development and ongoing operations in the project area should be made aware of the possible presence and issues associated with terrestrial fauna in the area through the induction process.

Recommendation 1: An induction program that includes a component on managing fauna in the project area.

Recommendation 2: Information on protecting fauna and reporting deaths and sightings of Malleefowl and other conservation significant species should be incorporated into the induction program.

8.2 DUST

Dust generated from vegetation clearing and development could potentially degrade surrounding vegetation, reducing its ability to absorb sunlight and influencing photosynthetic rates. Degradation of these areas will potentially render habitat unsuitable for fauna. Dust suppression and management programs are an essential component of minimising mining impacts on fauna during the construction program.

Recommendation 3: The impact of dust on adjacent vegetation and fauna habitat is managed against appropriate KPIs and in accordance with the site processes and procedures.

8.3 MINIMISING HABITAT FRAGMENTATION

Loss of vegetation and habitat may contribute to the decline in the number of fauna on and in the vicinity of project area. Where possible, access routes should be aligned to existing tracks and other barriers or follow the boundaries of broad-scale vegetation associations in the area to minimise the impact on the terrestrial fauna, which are often dependent upon specific habitat types. Clearing should be minimised, and fragmentation of remnant vegetation should be avoided wherever possible. Once areas are no longer required then they should be rehabilitated.

Recommendation 4: All areas disturbed during exploration and mining are rehabilitated as soon as practical after they are no longer required.

Recommendation 5: Where possible, access routes are aligned to existing roads, tracks and other barriers or follow the boundaries of broad-scale vegetation associations in the area.

8.4 MINIMISING SECONDARY IMPACTS TO FAUNA AND FAUNA HABITAT

Pets and feral animals have the potential to impact on fauna. Pets should not be permitted on site and feral and pest fauna numbers monitored and controlled. All rubbish likely to attract animals should be suitably contained and disposed of so as not to encourage the feeding of fauna around the site.

Based on feral cat and wild dog tracks and scats recorded during the site assessment, the project area currently supports a population of feral and pest species. Reducing the impacts of feral cats will reduce the stress on fauna and fauna assemblages in the area. Increased activity will result in increased traffic and a consequential increase in the fauna deaths on tracks. Limiting vehicle speed on mine roads can reduce collisions with fauna, particularly larger animals such as kangaroos and emus. Dead animals on the road also have the propensity to attract raptors, goannas and even cattle, which are then likely to be killed.

Recommendation 6: Pets are not permitted on the project.

Recommendation 7: All waste and rubbish be contained in bins and regularly removed from the project or placed in land fill and suitably covered to exclude access to predator species.

Recommendation 8: Feeding of native fauna is prohibited.

Recommendation 9: A feral pest control program is implemented in the project area and surrounds.

8.5 UNCAPPED DRILL HOLES

Uncapped drill holes can pose a serious threat to small animals, including ground dwelling reptiles, frogs and small mammals. A log of all on-site drill holes should be maintained detailing when they were capped, how and by whom. All drill holes should be temporarily capped on completion of drilling and permanently capped or closed as soon as possible after exploration activities have ceased.

Recommendation 10: A log of all on-site drill holes be maintained detailing when they were capped, how and by whom.

8.6 MANAGEMENT PLAN / SYSTEM

Established management plans or system describe the procedures and protocols that must be implemented to avoid, mitigate and minimise impacts on fauna during the vegetation clearing, infrastructure development and operational stages of a project. Such plans deal with the method of vegetation clearing, reducing fauna deaths on the roads, the impacts of artificial light spill, vibration, dust, feral species management, monitoring and recording conservation species, monitoring impacts on fauna in adjacent areas, staff inductions, etc. Management of secondary impacts to habitat and fauna should be addressed in the management plan or system. The plan should include:

- Control and reduction methods for feral and pest fauna;
- Management of pets on site;
- Habitat fragmentation and barriers to fauna movement;
- Vegetation clearing and development protocols;
- Vehicle impacts on vertebrate fauna (short and long term);
- Vehicle speed limits on site; and
- Anthropogenic activity.

Recommendation 11: A vertebrate fauna management plan or system is prepared and implemented for the life of the project.

8.7 CONSERVATION SIGNIFICANT FAUNA

The probable presence of Malleefowl in the assessed project area needs to be considered in the context of the proposed disturbance area and disturbance activities to determine whether this species will be a significant impacted by the proposed Action, and thus a referral is required under the *EPBC Act*. Additional information is required to make this judgement.

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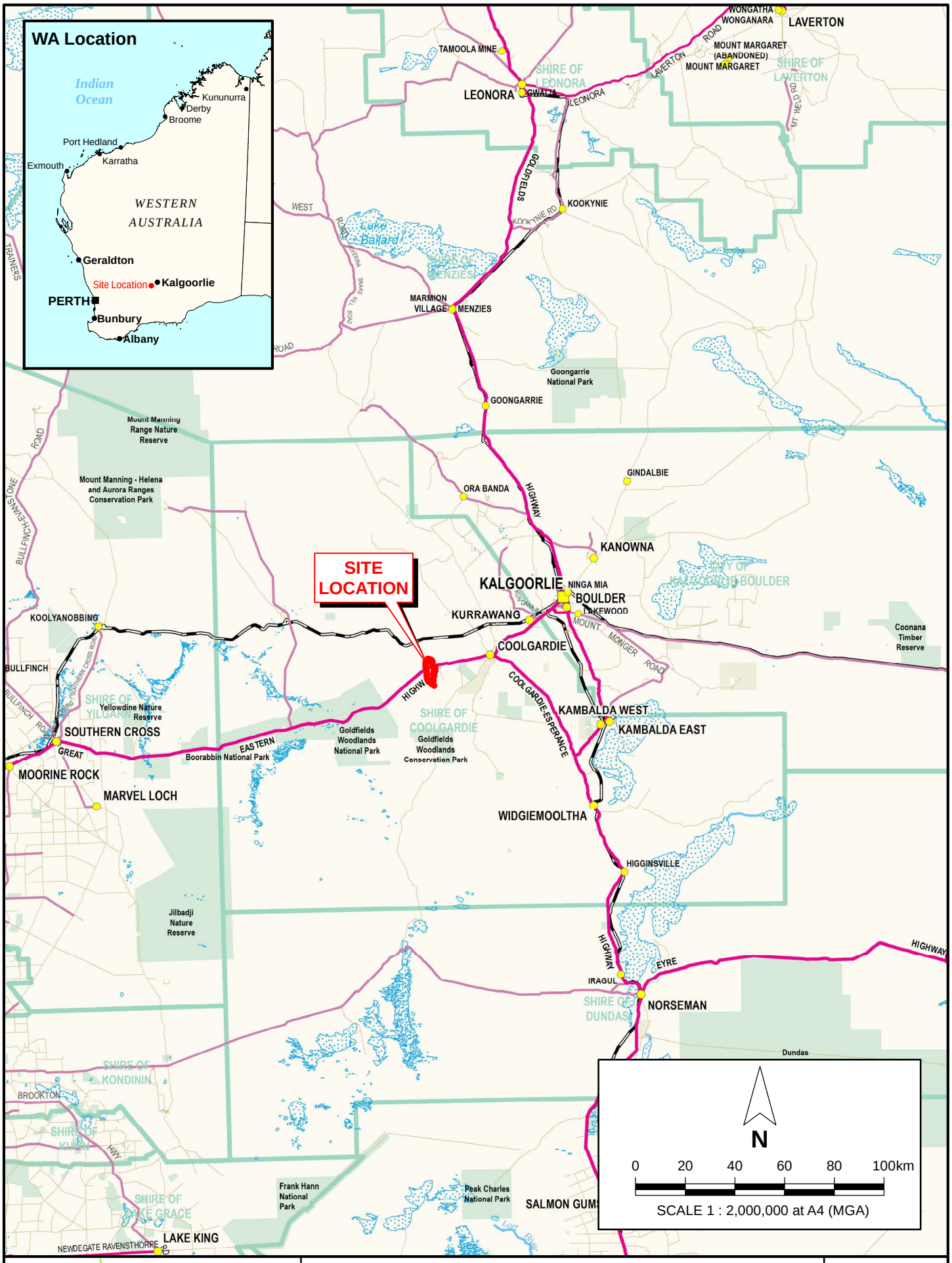
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Figures

Basic and targeted vertebrate fauna reconnaissance survey and risk assessment
Bullabulling Heap Leach Project





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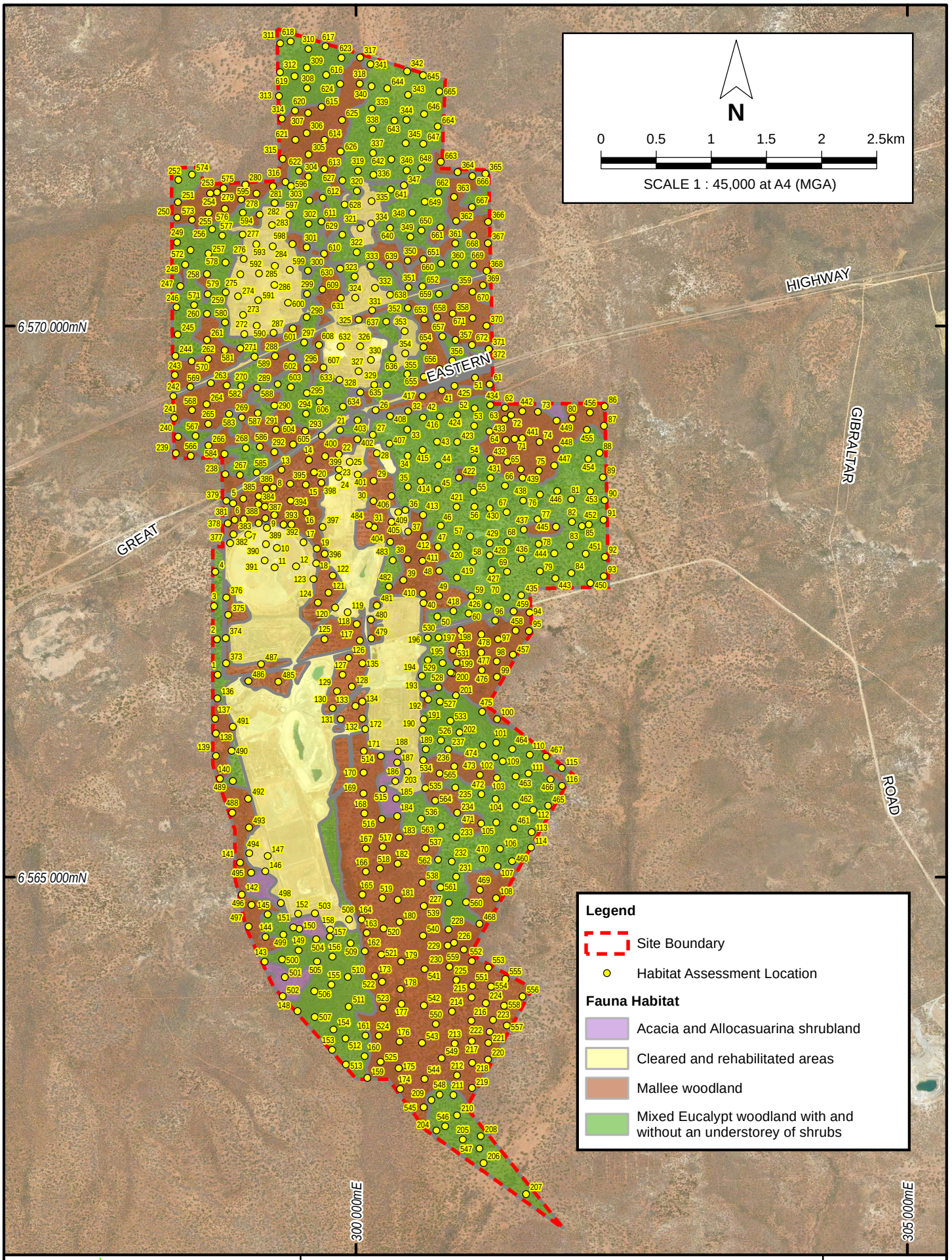
TERRESTRIAL ECOSYSTEMS

Bullabulling Operations Pty Ltd
BASIC AND TARGETED VERTEBRATE FAUNA RECONNAISSANCE SURVEY AND RISK ASSESSMENT - BULLABULLING HEAP LEACH PROJECT

Figure 1

REGIONAL LOCATION

Drawn: S. Thompson | Date: 9 Dec 2021 | Job: 2021-0048



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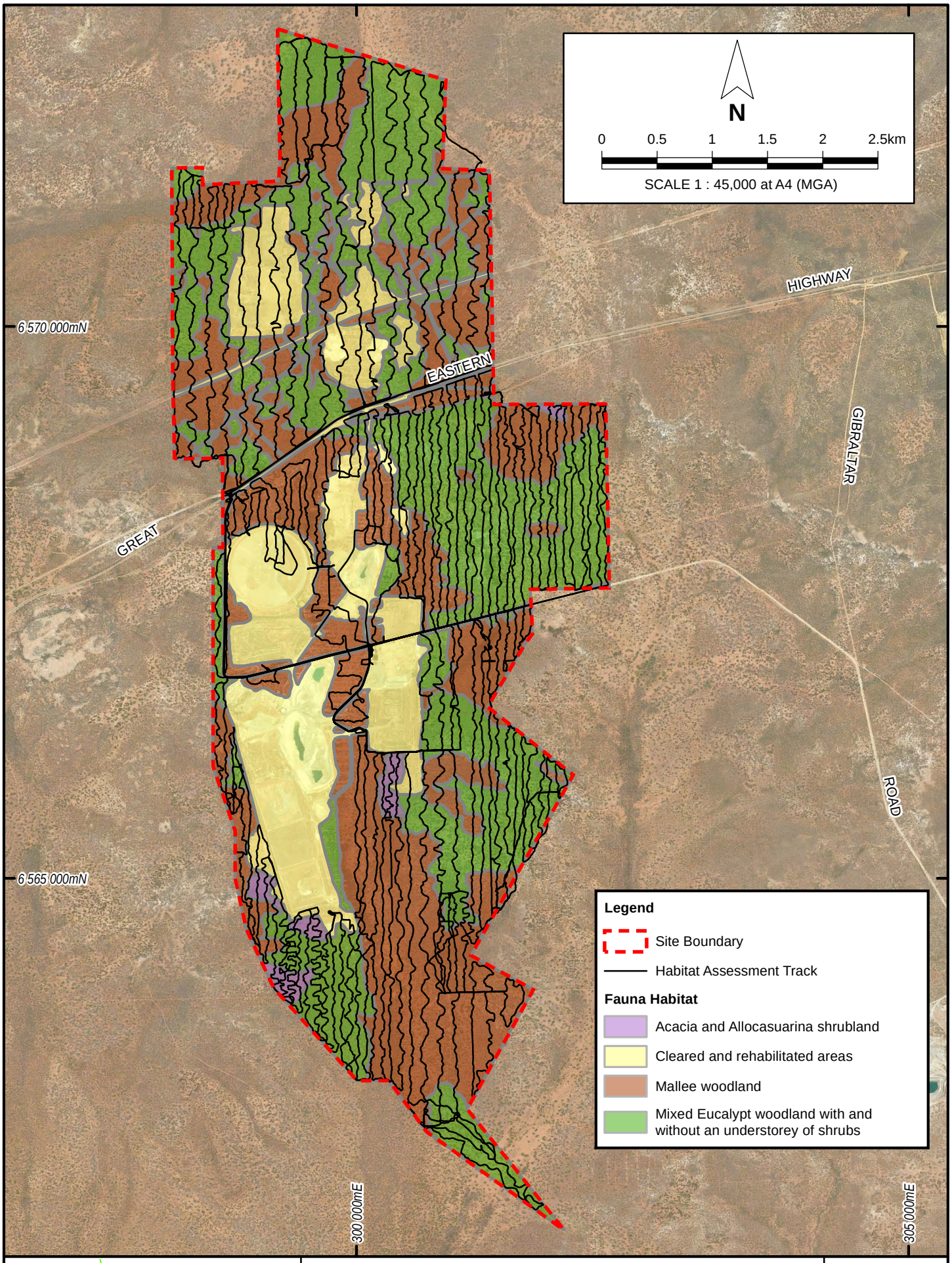
TERRESTRIAL ECOSYSTEMS

Bullabulling Operations Pty Ltd
BASIC AND TARGETED VERTEBRATE FAUNA RECONNAISSANCE SURVEY AND RISK ASSESSMENT - BULLABULLING HEAP LEACH PROJECT

Figure 2

FAUNA HABITAT TYPES AND ASSESSMENT LOCATIONS

Drawn: S. Thompson | Date: 9 Dec 2021 | Job: 2021-0048



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TERRESTRIAL ECOSYSTEMS

Bullabulling Operations Pty Ltd
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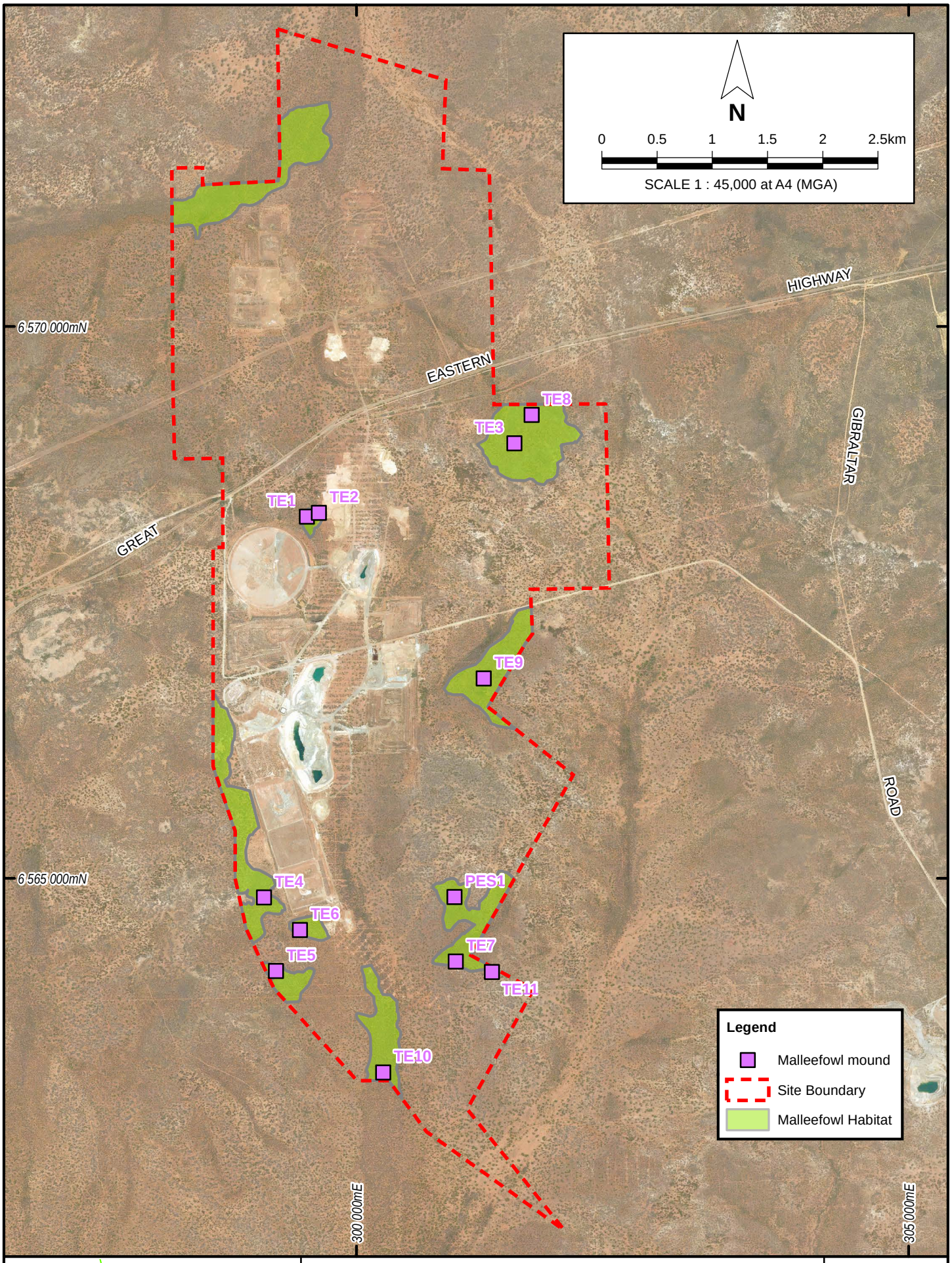
FAUNA HABITAT TYPES AND ASSESSMENT TRACK MAP

Figure 3

Drawn: S. Thompson

Date: 9 Dec 2021

Job: 2021-0048



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TERRESTRIAL ECOSYSTEMS

Bullabulling Operations Pty Ltd
BASIC AND TARGETED VERTEBRATE FAUNA RECONNAISSANCE SURVEY AND RISK ASSESSMENT - BULLABULLING HEAP LEACH PROJECT

Figure 4

MALLEEFOWL MOUNDS AND HABITAT

Drawn: S. Thompson | Date: 9 Dec 2021 | Job: 2021-0048

Appendix A.

Results of the *EPBC Act* Protected Matters Search

Basic and targeted vertebrate fauna reconnaissance survey and risk assessment
Bullabulling Heap Leach Project



Australian Government

Department of Agriculture, Water and the Environment

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.

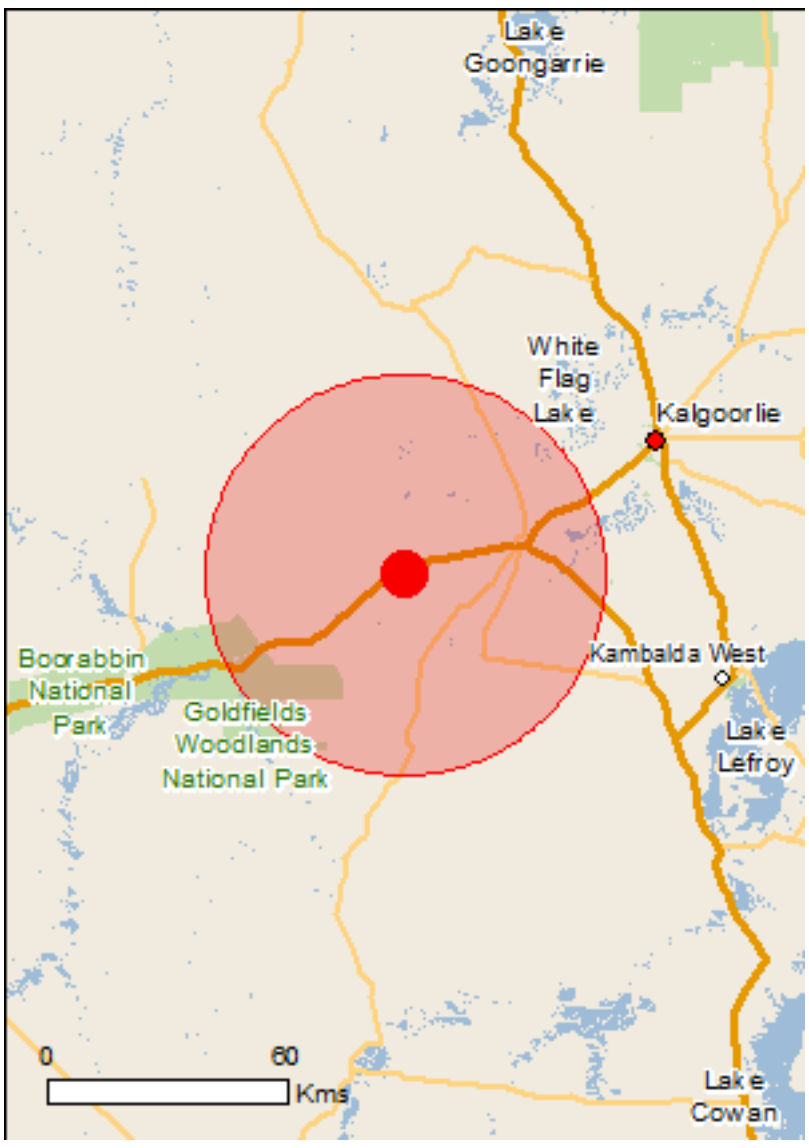
Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about Environment Assessments and the EPBC Act including significance guidelines, forms and application process details.

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

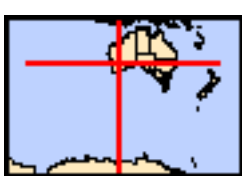
Caveat
Acknowledgements



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2015

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:	1
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:	8
Regional Forest Agreements:	None
Invasive Species:	14
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
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
Ricinocarpos brevis [82879]	Endangered	Species or species habitat may 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		
Motacilla cinerea Grey Wagtail [642]		Species or species

Name	Threatened	Type of Presence
		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]

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 -

Listed Marine Species [Resource Information]

* 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 habitat known to occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within

Name	Threatened	Type of Presence
		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
Credo	WA
Goldfields Woodlands	WA
Goldfields Woodlands	WA
Kangaroo Hills Timber Reserve	WA
Scahill Timber Reserve	WA
Victoria Rock	WA
Wallaroo 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 habitat likely to occur within area
Equus asinus Donkey, Ass [4]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
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
Cylindropuntia spp. Prickly Pears [85131]		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

-31.009 120.9083

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 B.

Vertebrate Fauna Recorded in Biological Surveys in the Region

Basic and targeted vertebrate fauna reconnaissance survey and risk assessment
Bullabulling Heap Leach Project



B.1 VERTEBRATE FAUNA ASSESSMENTS

		Surveys	A	B													C												
Family	**Species**	**Common name**		**Site BN2**	**Site BN4**	**Site BN6**	**Site 7E**	**Site 7E02**	**Site 7E03**	**Site 7E03A**	**Site 7E04**	**Site 7E06**	**Site 7E01A**	**Site 7E05**	**South**	**Pools on**	**Site 7E06A**	**Site 1**	**Site 10**	**Site 2**	**Site 5**	**Site 6**	**Site 9**	**Site 12**	**Site 3**	**Site 8**	**Site 7**	**Site 11**	**Site 13**
Fish																													
Cobitidae	*Carassius auratus*	Goldfish	X																										
Terapontidae	*Leiopotherapon unicolor*	Spangled Perch	X																										
Amphibians																													
Limnodynastidae	*Neobatrachus albipes*	White-footed Trilling Frog	X																										
	Neobatrachus kunapalari	Wheatbelt Frog	X	1	1	1												8	1	1	1	1	1							
	Neobatrachus pelobatoides	Humming Frog	X		1																									
	Neobatrachus sutor	Shoemaker Frog	X																											
	Neobatrachus wilsmorei	Plonking Frog	X																											
Myobatrachidae	*Pseudophryne occidentalis*	Western Toadlet	X			1	1																							
Reptiles																													
Agamidae	*Ctenophorus chapmani*	Chapman's Dragon	X																										
	Ctenophorus cristatus	Crested Dragon	X		1	1	1	3	3	16	8							1	1					1	1	1				
	Ctenophorus fordi	Mallee Dragon	X																											
	Ctenophorus isolepis	Central Military Dragon	X	1								2																		
	Ctenophorus maculatus	Spotted Dragon	X				1																							
	Ctenophorus ornatus	Ornate Crevice Dragon	X																											
	Ctenophorus reticulatus	Western Netted Dragon	X		1		1																1							
	Ctenophorus salinarum	Saltpan Dragon	X	1			1					1	13																	
	Ctenophorus scutulatus	Lozenge-marked Dragon	X		1																									
	Moloch horridus	Thorny Devil	X	1			1	1	2	1								1						1						
	Pogona minor	Western Bearded Dragon	X	1			1	1	1			1																		
	Tympanocryptis cephalus	Pebble Dragon	X																							1				
	Tympanocryptis lineata	Lined Earless Dragon	X																											
Carphodactylidae	*Nephrurus vertebralis*	Midline Knob-tail	X																											
	Underwoodisaurus milii	Barking Gecko	X																1			2	2		1		2	1	2	
Diplodactylidae	*Amalosia reticulata*	Reticulated Velvet Gecko	X			1	1				1			1																
	Crenadactylus ocellatus	Clawless Gecko	X			1	1																							
	Diplodactylus conspicillatus	Fat-tailed Gecko	X																											
	Diplodactylus granariensis	Wheatbelt Stone Gecko	X		1	1					1											1			3	1		1	1
	Diplodactylus pulcher	Beautiful Gecko	X	1	1														1		2	1	2					2		

		Surveys	A	B													C											
Family	Species	Common name		Site BN2	Site BN4	Site BN6	Site 7E	Site 7E02	Site 7E03	Site 7E03A	Site 7E04	Site 7E06	Site 7E01A	Site 7E05	South	Pools on	Site 7E06A	Site 1	Site 10	Site 2	Site 5	Site 6	Site 9	Site 12	Site 3	Site 8	Site 7	Site 11	Site 13
	Hesperoedura reticulata	Reticulated Velvet Gecko	X																									
	Lucasium maini	Main's Ground Gecko	X		1		1	2			2															2			
	Oedura marmorata	Marbled Velvet Gecko	X																										
	Rhynchoedura ornata	Beaked Gecko	X															1											
	Strophurus assimilis	Goldfields Spiny-tailed Gecko	X				1					1						5											
	Strophurus elderi	Jewelled Gecko	X																										
	Strophurus wellingtonae	Western Shield Spiny-tailed Gecko	X																										
Elapidae	*Acanthophis pyrrhus*	Desert Death Adder	X																										
	Brachyurophis semifasciata	Half-girdled Snake	X																										
	Demansia psammophis	Yellow-faced Whipsnake	X																1										
	Echiopsis curta	Bardick	X																										
	Furina ornata	Orange-naped Snake	X																										
	Neelaps bimaculatus	Black-naped Burrowing Snake	X																										
	Suta gouldii	Gould's Snake	X	1																									
	Suta monachus	Hooded Snake	X																										
	Pseudechis australis	Mulga Snake	X																								1		
	Pseudonaja affinis	Dugite	X				1																						
	Pseudonaja mengdeni	Western Brown Snake	X																										
	Pseudonaja modesta	Ringed Brown Snake	X				1																						
	Simoselaps bertholdi	Jan's Banded Snake	X		1			2																					
	Suta fasciata	Rosen's Snake	X				1																						
Gekkonidae	*Gehyra purpurascens*	Purplish Dtella	X																					1					
	Gehyra variegata	Variegated Gehyra	X		1	1	1	1		2								1	2	1	1								
	Heteronotia binoei	Bynoe's Gecko	X		1		1																1						
Pygopodidae	*Delma australis*	Marble-faced Delma	X		1	1	1		1	1								1		1									
	Delma butleri	Unbanded Delma	X	1			1																						
	Lialis burtonis	Burton's Legless Lizard	X				1													1									
	Pygopus lepidopodus	Common Scaly-foot	X		1									1					1										
	Pygopus nigriceps	Western Hooded Scaly-foot	X																										
Pythonidae	*Morelia spilota*	Carpet Python	X																										
Scincidae	*Cryptoblepharus australis*	Inland Snake-eyed Skink	X																										
	Cryptoblepharus buchananii	Buchanan's Snake-eyed Skink	X			1	1				1			1					1		1		1						
	Ctenotus atlas	Southern Mallee Ctenotus	X	1			1		5									1											
	Ctenotus australis	Western Limestone Ctenotus	X																										

		Surveys	A	B														C												
Family	Species	Common name		Site BN2	Site BN4	Site BN6	Site 7E	Site 7E02	Site 7E03	Site 7E03A	Site 7E04	Site 7E06	Site 7E01A	Site 7E05	South	Pools on	Site 7E06A	Site 1	Site 10	Site 2	Site 5	Site 6	Site 9	Site 12	Site 3	Site 8	Site 7	Site 11	Site 13
	Ctenotus brooksi	Wedgsnout Ctenotus	X																											
	Ctenotus leonhardii	Leonhardi's Ctenotus	X																											
	Ctenotus pantherinus	Leopard Ctenotus	X	1			1																							
	Ctenotus schomburgkii	Barred Wedgesnout Ctenotus	X				1	1	2																					
	Ctenotus uber	Spotted Ctenotus	X			1																			1	1				
	Ctenotus xenopleura	Wide-striped Ctenotus	X	1																										
	Cyclodomorphus branchialis	Common Slender Bluetongue		1			1																							
	Cyclodomorphus melanops	Spinifex Slender Blue-tongue	X																											
	Egernia depressa	Southern Pygmy Spiny-tailed Skink	X																											
	Egernia formosa	Goldfields Crevice Skink	X					1																						
	Egernia richardi	Bright Crevice-skink	X				1																							
	Eremiascincus richardsonii	Broad-banded Sand-swimmer	X																											
	Hemiergis initialis	South-western Earless Skink	X					1			1			1																
	Lerista kingi	King's Slider	X																											
	Lerista muelleri	Wood Mulch-slider	X																											
	Lerista picturata	Southern Robust Slider	X					1						2											1		1			
	Lerista timida	Timid Slider	X																											
	Liopholis inornata	Desert Skink	X				1																							
	Menetia greyii	Common Dwarf Skink	X		1	1	1	1	1	1	1									3				1	1	1	2		1
	Morethia adelaidensis	Saltbush Morethia Skink	X																											
	Morethia butleri	Woodland Morethia Skink	X		1		1	1		1	1																			
	Morethia obscura	Shrubland Pale-flecked Morethia	X	1			1		1																					
	Tiliqua occipitalis	Western Blue-tongued Lizard																2												
	Tiliqua rugosa	Bobtail	X		1	1	1	1																			1	1		
Typhlopidae	*Anilios australis*	Austral Blind Snake	X						1										1							1				
	Anilios bituberculatus	Prong-snouted Blind Snake	X																											
Varanidae	*Varanus caudolineatus*	Stripe-tailed Monitor	X																											
	Varanus gouldii	Gould's Goanna	X				1		1	1	1									2						1	1			
	Varanus tristis	Black-headed Monitor	X																								3			
Birds																														
Casuariidae	*Dromaius novaehollandiae*	Emu						2											2			2						1		
Megapodiidae	*Leipoa ocellata*	Malleefowl																		1										
Columbidae	*Phaps chalcoptera*	Common Bronzewing				2		2			3								5			2		2						
	Phaps elegans	Brush Bronzewing																									2			

		Surveys	A	B														C											
Family	Species	Common name		Site BN2	Site BN4	Site BN6	Site 7E	Site 7E02	Site 7E03	Site 7E03A	Site 7E04	Site 7E06	Site 7E01A	Site 7E05	South	Pools on	Site 7E06A	Site 1	Site 10	Site 2	Site 5	Site 6	Site 9	Site 12	Site 3	Site 8	Site 7	Site 11	Site 13
	Ocyphaps lophotes	Crested Pigeon																						2					
Cuculidae	*Chrysococcyx basalis*	Horsfield's Bronze-Cuckoo					1																						
	Chrysococcyx osculans	Black-eared Cuckoo																				1	1		3	1	2	1	
Aegothelidae	*Aegotheles cristatus*	Australian Owlet-nightjar									1																		
Podargidae	*Podargus strigoides*	Tawny Frogmouth						1																2			1		
Caprimulgidae	*Eurostopodus argus*	Spotted Nightjar						1												1										
Charadriidae	*Vanellus tricolor*	Banded Lapwing																						1					
Turnicidae	*Turnix varius*	Painted Buttonquail				1																							
Accipitridae	*Lophoictinia isura*	Square-tailed Kite																	2						1			1	
	Hieraaetus morphnoides	Little Eagle									1																		
	Aquila audax	Wedge-tailed Eagle																								1			
	Accipiter cirrocephalus	Collared Sparrowhawk							1	1																			
Cuculidae	*Heteroscenes pallidus*	Pallid Cuckoo						2															2	1	1				
Strigidae	*Ninox boobook*	Southern Boobook					1													1									
Alcedinidae	*Todiramphus pyrrhopygius*	Red-backed Kingfisher			4			1		2																			
Meropidae	*Merops ornatus*	Rainbow Bee-eater						5	13	19	30								1				1	6		1			
Falconidae	*Falco cenchroides*	Nankeen Kestrel					1																						
	Falco berigora	Brown Falcon					1															1			1	1			
Cacatuidae	*Eolophus roseicapilla*	Galah																							1				
	Nymphicus hollandicus	Cockatiel					1																						
Psittaculidae	*Polytelis anthopeplus*	Regent Parrot			2				1	14										2						8			
	Neophema elegans	Elegant Parrot									1																		
	Barnardius zonarius	Australian Ringneck			1	1		6	14	5	1								2			6	6	2	6	3	31	3	
Psittacidae	*Platycercus icterotis*	Western Rosella (Inland)									1																		
Psittaculidae	*Psephotus varius*	Mulga Parrot			20																	5							
	Glossopsitta porphyrocephala	Purple-crowned Lorikeet							8	6			1									10			31	4	13	6	
Ptilonorhynchidae	*Chlamydera guttata*	Western Bowerbird	X																										
Climacteridae	*Climacteris rufus*	Rufous Treecreeper	X		20						29			39											26	4			
Maluridae	*Malurus pulcherrimus*	Blue-breasted Fairywren	X																2								5		
	Malurus splendens	Splendid Fairywren	X																5										
	Malurus splendens	Splendid Fairywren	X																										
	Malurus leucopterus	White-winged Fairywren	X				1																						
Meliphagidae	*Certhionyx variegatus*	Pied Honeyeater	X																										
	Purnella albifrons	White-fronted Honeyeater	X			1		6	12		3			3					25	8		6	5	28	21		12	28	

		Surveys	A	B														C											
Family	Species	Common name		Site BN2	Site BN4	Site BN6	Site 7E	Site 7E02	Site 7E03	Site 7E03A	Site 7E04	Site 7E06	Site 7E01A	Site 7E05	South	Pools on	Site 7E06A	Site 1	Site 10	Site 2	Site 5	Site 6	Site 9	Site 12	Site 3	Site 8	Site 7	Site 11	Site 13
	Lichenostomus cratitius	Purple-gaped Honeyeater	X																										
	Manorina flavigula	Yellow-throated Miner	X																			8	11	2	6	8			
	Acanthagenys rufogularis	Spiny-cheeked Honeyeater	X	1	23	11		2	1	1									7	1		3	2	4	5		2	4		
	Anthochaera carunculata	Red Wattlebird	X			1			2		3			1					1			3	4	8	3	2	14	10		
	Gavicalis virescens	Singing Honeyeater	X					2	2																				
	Ptilotula ornata	Yellow-plumed Honeyeater	X		125	6		31			102			54					2	1		30	19	6	52	94	14	16		
	Ptilotula penicillata	White-plumed Honeyeater (Western)	X																										
	Epthianura tricolor	Crimson Chat	X																										
	Epthianura aurifrons	Orange Chat	X																										
	Epthianura albifrons	White-fronted Chat	X				1																						
	Sugomel nigrum	Black Honeyeater	X																										
	Gliciphila melanops	Tawny-crowned Honeyeater	X	2				2																					
	Lichmera indistincta	Brown Honeyeater	X		1	1		8											1				2				1	5	
	Nesoptilotis leucotis	White-eared Honeyeater	X			5		7	5										4	6		3	4	16	2	3	1	14		
	Nesoptilotis flavicollis	Yellow-throated Honeyeater		1	4				12		1			1															
	Melithreptus brevirostris	Brown-headed Honeyeater						4											2			1		4	1		5	4		
Pardalotidae	*Pardalotus punctatus*	Spotted Pardalote	X																										
	Pardalotus rubricatus	Red-browed Pardalote	X																										
	Pardalotus striatus	Striated Pardalote	X		28	17		12	7		8			16					1			5	1	2	1	1	9	1		
Acanthizidae	*Pyrrholaemus brunneus*	Redthroat	X		2			6	1										9			11	6		1		5	6		
	Calamanthus campestris	Rufous Fieldwren	X																										
	Hylacola cauta	Shy Heathwren	X		3			1											2										
	Acanthiza iredalei	Slender-billed Thornbill (Western)	X																										
	Acanthiza apicalis	Inland Thornbill	X	20		7		6	4		5			4					4			2	2		3		6	5		
	Acanthiza chrysorrhoa	Yellow-rumped Thornbill	X						10										5			5	2							
	Acanthiza uropygialis	Chestnut-rumped Thornbill	X		6	13		24	4										45			41	35	1	1		23	8		
	Acanthiza robustirostris	Slaty-backed Thornbill	X																										
	Smicrornis brevirostris	Weebill	X		9	98		35	29		11		4	21					19	1		30	24	23	8		40	57		
	Gerygone fusca	Western Gerygone	X																			1							
	Aphelocephala leucopsis	Southern Whiteface	X																			1							
Pomatostomidae	*Pomatostomus superciliosus*	White-browed Babbler	X					12												6		15							
Cinclosomatidae	*Cinclosoma castanotum*	Chestnut Quail-thrush	X											1					1			4	1	1		1			
Campephagidae	*Coracina novaehollandiae*	Black-faced Cuckooshrike	X			1		5	1	2	1		3						3			1			6	7	2	2		
	Lalage tricolor	White-winged Triller	X				9						4											1						

		Surveys	A	B														C												
Family	Species	Common name		Site BN2	Site BN4	Site BN6	Site 7E	Site 7E02	Site 7E03	Site 7E03A	Site 7E04	Site 7E06	Site 7E01A	Site 7E05	South	Pools on	Site 7E06A	Site 1	Site 10	Site 2	Site 5	Site 6	Site 9	Site 12	Site 3	Site 8	Site 7	Site 11	Site 13
Neosittidae	*Daphoenositta chrysoptera*	Varied Sittella	X				1																			7		
Oreoicidae	*Oreoica gutturalis*	Crested Bellbird	X		3	1		4	1	7	3								2	2		6	2	2	5	4	2	2	
Pachycephalidae	*Colluricincla harmonica*	Grey Shrikethrush	X		7			2	3	9	4								3	3		2	1	1	1	3	1	1	
	Pachycephala inornata	Gilbert's Whistler	X		7			8						7								1			1				
	Pachycephala pectoralis	Golden Whistler	X																	1			1						
	Pachycephala simplex	Grey Whistler																					1						
	Pachycephala rufiventris	Rufous Whistler	X				1												2										
Artamidae	*Artamus personatus*	Masked Woodswallow	X				1																						
	Artamus cinereus	Black-faced Woodswallow	X								1									1				1					
	Artamus cyanopterus	Dusky Woodswallow	X		35			3			21			3								2				6			
	Cracticus torquatus	Grey Butcherbird	X		1			1											1			3		2	4	2	3	1	
	Cracticus nigrogularis	Pied Butcherbird	X						1	6	1												1		3	1		1	
	Gymnorhina tibicen	Australian Magpie	X				1																	2	2	1		1	
	Strepera versicolor	Grey Currawong	X						1										4	1		4	2	1	2	3	3	5	
Rhipiduridae	*Rhipidura leucophrys*	Willie Wagtail	X		2				2	12	8											1			4				
	Rhipidura albiscapa	Grey Fantail	X																										
Monarchidae	*Grallina cyanoleuca*	Magpie-lark	X																										
Corvidae	*Corvus orru*	Torresian Crow	X																										
	Corvus bennetti	Little Crow	X																	1		1			3	1			
	Corvus coronoides	Australian Raven	X		2														1			4	6	1	1	8	1	3	
Petroicidae	*Microeca fascinans*	Jacky Winter	X		3	1		2	1					7										11					
	Petroica goodenovii	Red-capped Robin	X			1		7	7		1								16				8				1		
	Melanodryas cucullata	Hooded Robin	X					4																					
	Eopsaltria griseogularis	Western Yellow Robin	X																2										
	Drymodes brunneopygia	Southern Scrub-Robin	X					2																					
Locustellidae	*Cincloramphus mathewsi*	Rufous Songlark	X																										
Hirundinidae	*Hirundo neoxena*	Welcome Swallow	X																							2			
	Petrochelidon ariel	Fairy Martin	X																										
	Petrochelidon nigricans	Tree Martin	X		48			7																					
	Cheramoeca leucosterna	White-backed Swallow	X																					1					
Zosteropidae	*Zosterops lateralis*	Silvereye (Western)	X																										
Dicaeidae	*Dicaeum hirundinaceum*	Mistletoebird	X		1																			1					
Estrildidae	*Taeniopygia guttata*	Zebra Finch	X																										
Motacillidae	*Anthus novaeseelandiae*	Australasian Pipit	X						1				7																

		Surveys	A	B														C											
Family	Species	Common name		Site BN2	Site BN4	Site BN6	Site 7E	Site 7E02	Site 7E03	Site 7E03A	Site 7E04	Site 7E06	Site 7E01A	Site 7E05	South	Pools on	Site 7E06A	Site 1	Site 10	Site 2	Site 5	Site 6	Site 9	Site 12	Site 3	Site 8	Site 7	Site 11	Site 13
Mammals																													
Tachyglossidae	*Tachyglossus aculeatus*	Short-beaked Echidna					1				1																		
Canidae	*Canis lupus*	Dingo	X						1																				
Felidae	*Felis catus*	Cat					1						1																
Molossidae	*Austronomus australis*	White-striped Freetail Bat	X		1		7				1				1	1													
	Mormopterus planiceps	Southern Free-tail Bat	X							1	2																		
Vespertilionidae	*Chalinolobus gouldii*	Gould's Wattled Bat	X				13			1	3																		
	Chalinolobus morio	Chocolate Wattled Bat	X				3			1	3				1														
	Nyctophilus geoffroyi	Lesser Long-eared Bat	X				1																						
	Nyctophilus major	Greater Long-eared Bat					1									1													
	Scotorepens balstoni	Inland Broad-nosed Bat	X							1																			
	Vespadelus baverstocki	Inland Forest Bat	X																										
	Vespadelus regulus	Southern Forrest Bat	X				11				5				1	1													
Dasyuridae	*Antechinomys laniger*	Kultarr	X																										
	Ningaui ridei	Wongai Ningaui	X																				1						
	Ningaui yvonneae	Mallee Ningaui	X	2					3	1	1		1																
	Sminthopsis crassicaudata	Fat-tailed Dunnart	X			1							8																
	Sminthopsis dolichura	Little Long-tailed Dunnart	X		1			1		2	1	1		4				1	13	4		1				1	15	1	
	Sminthopsis gilberti	Gilbert's Dunnart	X																										
	Sminthopsis hirtipes	Hairy-footed Dunnart	X									1					1												
Burramyidae	*Cercartetus concinnus*	Southwestern Pygmy Possum	X										1	1					1	2	1		1	2	1		4	1	3
Macropodidae	*Macropus fuliginosus*	Western Grey Kangaroo	X				6			2			1	2															
	Osphranter robustus	Euro	X																										
Leporidae	*Oryctolagus cuniculus*	Rabbit					1	1	1	1	1		1																
Muridae	*Mus musculus*	House Mouse	X	2	3						1	1	10									4							9
	Notomys mitchellii	Mitchell's Hopping Mouse	X						1	1								42	1	29				2					
	Pseudomys albocinereus	Ash-grey Mouse	X	9							1																		
	Pseudomys bolami	Bolam's Mouse	X					2	2				2				1												
	Pseudomys hermannsburgensis	Sandy Inland Mouse	X																		1					1	13	2	
	Pseudomys nanus	Western Chestnut Mouse	X																										

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		Surveys	A													B			C				D	E					
Family	**Species**	**Common name**	**Golden Arrow Trans**	**Rose Trans**	**Palace Rehab**	**Golden Arrow Undist**	**Palace Undist**	**Crossroads**	**Golden Arrow Rehab**	**Palace Trans**	**Rose Rehab**	**Rose Undist**	**Wendy Gully Rehab**	**Wendy Gully Trans**	**Wendy Gully Undist**	**Binduli**	**MFM01**	**MFM02**	**KK4**	**KK1**	**KK2**	**KK11**	**Victoria Rock NR**	**KFS24**	**KFS23**	**KFS25**	**KFS26b**	**KFS26a**
Amphibians																													
Limnodynastidae	*Neobatrachus albipes*	White-footed Trilling Frog																											
	Neobatrachus kunapalari	Wheatbelt Frog	1													X													
	Neobatrachus sutor	Shoemaker Frog	6	5	5	19	25	12	2	2	1	9							1	8									
	Neobatrachus wilsmorei	Plonking Frog																	1										
Myobatrachidae	*Pseudophryne occidentalis*	Western Toadlet	5		1	1	95	4		2		2	2							2			1	1					
Reptiles																													
Agamidae	*Ctenophorus chapmani*	Chapman's Dragon																											
	Ctenophorus cristatus	Crested Dragon		3		1	10	1		1	2	4		1							3								
	Ctenophorus fordi	Mallee Dragon																	4										
	Ctenophorus ornatus	Ornate Crevice Dragon																					1						
	Ctenophorus reticulatus	Western Netted Dragon		2	3	19		6			12	18	1	1	3	X			3		5		1						
	Ctenophorus salinarum	Saltpan Dragon														X													
	Ctenophorus scutulatus	Lozenge-marked Dragon				3	2					2		1	13				8				1						
	Moloch horridus	Thorny Devil	1										1	1	17				1				1						
	Pogona minor	Western Bearded Dragon	9	2	20	14	3	21	10	8	18	2	14	4	24	X						1							
	Tympanocryptis cephalus	Pebble Dragon									1				1														
Carphodactylidae	*Nephrurus laevissimus*	Smooth Knob-tail		1																									
	Nephrurus vertebralis	Midline Knob-tail																	1										
	Underwoodisaurus milii	Barking Gecko	75	68	20	22	22	2	97	47	98	10	37	33	28	X						2	1		2	2	1		
Diplodactylidae	*Amalosia reticulata*	Reticulated Velvet Gecko										4									1		1						
	Diplodactylus granariensis	Wheatbelt Stone Gecko	6	36	2	13	62	29	2	2	34	68	33	38	76					1	2	4							
	Diplodactylus pulcher	Beautiful Gecko	2	3	1	78	88	80	6	3	4	100	1	3	46				1		2			3					
	Lucasium maini	Main's Ground Gecko	1		1	6	39	9				69		1	1						3	5					1	1	
	Rhynchoedura ornata	Beaked Gecko				23	20	41			1	106			9				1										
	Strophurus assimilis	Goldfields Spiny-tailed Gecko	4			19	1		8	1	1		14	15	112														
	Strophurus elderi	Jewelled Gecko																	3										
Elapidae	*Brachyurophis semifasciata*	Half-girdled Snake				5	2																						
	Demansia psammophis	Yellow-faced Whipsnake					2			1	1				3								1						

		Surveys	A													B			C				D	E					
Family	Species	Common name	Golden Arrow Trans	Rose Trans	Palace Rehab	Golden Arrow Undist	Palace Undist	Crossroads	Golden Arrow Rehab	Palace Trans	Rose Rehab	Rose Undist	Wendy Gully Rehab	Wendy Gully Trans	Wendy Gully Undist	Binduli	MFM01	MFM02	KK4	KK1	KK2	KK11	Victoria Rock NR	KFS24	KFS23	KFS25	KFS26b	KFS26a
	Suta gouldii	Gould's Snake																		1								
	Suta monachus	Hooded Snake		2	3	3	11	2	1	3	1	3		1	6					1								
	Pseudechis australis	Mulga Snake		2	2	1						1	1			X							1					
	Pseudonaja mengdeni	Western Brown Snake							1					1	1							1						
	Pseudonaja modesta	Ringed Brown Snake				2						2			1						1							
	Simoselaps bertholdi	Jan's Banded Snake					2	1				1			2				1									
	Suta fasciata	Rosen's Snake												1														
Gekkonidae	*Gehyra purpurascens*	Purplish Dtella				1	9	6				6																
	Gehyra variegata	Variegated Gehyra		13	2	28	45	6	1	1	3	37	3	1	12	X			1		3	2	1					
	Heteronotia binoei	Bynoe's Gecko	53	27	19	12	28	1	43	42	34	13	42	27	8	X			1	2	6	6						2
Pygopodidae	*Delma australis*	Marble-faced Delma		1		2	9		1			2			6	X						1						
	Delma butleri	Unbanded Delma						2							2													
	Delma fraseri	Fraser's Delma						1																				
	Lialis burtonis	Burton's Legless Lizard		2											3				2									
	Pygopus lepidopodus	Common Scaly-foot													1												2	
Pythonidae	*Morelia spilota*	Carpet Python																					1					
Scincidae	*Cryptoblepharus buchananii*	Buchanan's Snake-eyed Skink				1	5			1		7											1					
	Cryptoblepharus plagiocephalus	Peron's Snake-eyed Skink																	4									
	Ctenotus atlas	Southern Mallee Ctenotus					1							2	104				6									
	Ctenotus schomburgkii	Barred Wedgesnout Ctenotus													2				1				1					
	Ctenotus uber	Spotted Ctenotus	2			48	5	27	1			3	2	1	25						7							
	Cyclodomorphus melanops	Spinifex Slender Blue-tongue		2		6	2						2	2	24				1									
	Egernia depressa	Southern Pygmy Spiny-tailed Skink		1	1	2	3			2	2	3																
	Egernia formosa	Goldfields Crevice Skink					2	1				14									1			1				
	Eremiascincus richardsonii	Broad-banded Sand-swimmer			1	4		2					1		1								1					
	Hemiergis gracilipes	South-western Mulch-skink														X												
	Lerista kingi	King's Slider														X											3	1
	Lerista picturata	Southern Robust Slider				17	5	1				5			20						2	1						
	Lerista sp.		1	3	1	3	6					6			2				2		3	2						
	Liopholis inornata	Desert Skink					8					71			2	X			1	1	1		1					

		Surveys	A													B			C				D	E				
Family	Species	Common name	Golden Arrow Trans	Rose Trans	Palace Rehab	Golden Arrow Undist	Palace Undist	Crossroads	Golden Arrow Rehab	Palace Trans	Rose Rehab	Rose Undist	Wendy Gully Rehab	Wendy Gully Trans	Wendy Gully Undist	Binduli	MFM01	MFM02	KK4	KK1	KK2	KK11	Victoria Rock NR	KFS24	KFS23	KFS25	KFS26b	KFS26a
	Liopholis striata	Nocturnal Desert Skink													1													
	Menetia greyii	Common Dwarf Skink		11	4	6	23	4		4	12	18			1	X						1		1	3			
	Morethia adelaidensis	Saltbush Morethia Skink																			1							
	Morethia butleri	Woodland Morethia Skink		4			6					17		1								2		1		1	2	1
	Tiliqua occipitalis	Western Blue-tongued Lizard				2									4								1					
	Tiliqua rugosa	Bobtail	3	1				1	1		3	2			1	X			3		2	7	1			4		
Typhlopidae	*Anilios australis*	Austral Blind Snake			2		7	7		3	1	2		1	6													
	Anilios bicolor	Dark-spined Blind Snake													1													
	Anilios bituberculatus	Prong-snouted Blind Snake	2			2	2					1		1														
	Anilios hamatus	Pale-headed Blind Snake	5	2	2	18	7	13	4	1		6	1	1	9													
Varanidae	*Varanus caudolineatus*	Stripe-tailed Monitor				1		9			2	1			9				1									
	Varanus gouldii	Gould's Goanna	2	3	3	9	3	2	4	1	3	7	2	1					1		2		1					
	Varanus tristis	Black-headed Monitor		1																								
BIrds																												
Casuariidae	*Dromaius novaehollandiae*	Emu														X			14		11		1					
Anatidae	*Cygnus atratus*	Black Swan														X												
	Tadorna tadornoides	Australian Shelduck														X												
	Anas gracilis	Grey Teal														X					10							
Megapodiidae	*Leipoa ocellata*	Malleefowl															X	X										
Columbidae	*Phaps chalcoptera*	Common Bronzewing														X					4	3	1				1	2
	Ocyphaps lophotes	Crested Pigeon														X					2							
Cuculidae	*Chrysococcyx basalis*	Horsfield's Bronze-Cuckoo																	1		2	1						
	Chrysococcyx osculans	Black-eared Cuckoo																					1					
	Cacomantis flabelliformis	Fan-tailed Cuckoo																					1					
Aegothelidae	*Aegotheles cristatus*	Australian Owlet-nightjar																					1					
Podargidae	*Podargus strigoides*	Tawny Frogmouth														X			1				1					
Caprimulgidae	*Eurostopodus argus*	Spotted Nightjar																					1					
Recurvirostridae	*Recurvirostra novaehollandiae*	Red-necked Avocet														X												
Charadriidae	*Vanellus tricolor*	Banded Lapwing																					1					
Accipitridae	*Hieraaetus morphnoides*	Little Eagle																					1					

		Surveys	A													B			C				D	E					
Family	Species	Common name	Golden Arrow Trans	Rose Trans	Palace Rehab	Golden Arrow Undist	Palace Undist	Crossroads	Golden Arrow Rehab	Palace Trans	Rose Rehab	Rose Undist	Wendy Gully Rehab	Wendy Gully Trans	Wendy Gully Undist	Binduli	MFM01	MFM02	KK4	KK1	KK2	KK11	Victoria Rock NR	KFS24	KFS23	KFS25	KFS26b	KFS26a
	Aquila audax	Wedge-tailed Eagle														X						2							
	Accipiter fasciatus	Brown Goshawk																					1						
	Accipiter cirrocephalus	Collared Sparrowhawk																					1						
Cuculidae	*Heteroscenes pallidus*	Pallid Cuckoo																	1		4	1	1						
Strigidae	*Ninox boobook*	Southern Boobook																				1	1						
Alcedinidae	*Todiramphus pyrrhopygius*	Red-backed Kingfisher																				2							
Meropidae	*Merops ornatus*	Rainbow Bee-eater																			19	10	1						5
Falconidae	*Falco cenchroides*	Nankeen Kestrel														X							1						
	Falco longipennis	Australian Hobby														X													
	Falco berigora	Brown Falcon														X					1		1						
Timaliidae	*Zosterops lateralis*	Silvereye																					1						
Cacatuidae	*Eolophus roseicapilla*	Galah																			10		1						
	Nymphicus hollandicus	Cockatiel																			15								
Psittaculidae	*Polytelis anthopeplus*	Regent Parrot																					1						
	Barnardius zonarius	Australian Ringneck														X			11		63	16	1						
Psittacidae	*Platycercus icterotis*	Western Rosella																					1						
Psittaculidae	*Psephotus varius*	Mulga Parrot														X			7		1		1						
	Glossopsitta porphyrocephala	Purple-crowned Lorikeet														X					3	6	1				2	3	
Climacteridae	*Climacteris rufus*	Rufous Treecreeper																			4							4	
Maluridae	*Malurus pulcherrimus*	Blue-breasted Fairywren																											
	Malurus lamberti	Variegated Fairywren																					1						
	Malurus leucopterus	White-winged Fairywren														X					10								
Meliphagidae	*Purnella albifrons*	White-fronted Honeyeater																	17		11	19	1				2	1	
	Lichenostomus cratitius	Purple-gaped Honeyeater																					1						
	Manorina flavigula	Yellow-throated Miner														X			52		86	36	1						
	Acanthagenys rufogularis	Spiny-cheeked Honeyeater																	20		10	14	1				6	1	
	Anthochaera carunculata	Red Wattlebird														X					31		1					9	
	Gavicalis virescens	Singing Honeyeater														X			9			15	1		1				
	Ptilotula ornata	Yellow-plumed Honeyeater																			30	8	1				13	27	
	Ptilotula keartlandi	Grey-headed Honeyeater														X													

		Surveys	A													B			C				D	E					
Family	Species	Common name	Golden Arrow Trans	Rose Trans	Palace Rehab	Golden Arrow Undist	Palace Undist	Crossroads	Golden Arrow Rehab	Palace Trans	Rose Rehab	Rose Undist	Wendy Gully Rehab	Wendy Gully Trans	Wendy Gully Undist	Binduli	MFM01	MFM02	KK4	KK1	KK2	KK11	Victoria Rock NR	KFS24	KFS23	KFS25	KFS26b	KFS26a
	Lichmera indistincta	Brown Honeyeater														X						30		1		6	1	1
	Nesoptilotis leucotis	White-eared Honeyeater																			3		1			1	2	1
	Melithreptus chloropsis	Gilbert's Honeyeater														X												
	Melithreptus brevirostris	Brown-headed Honeyeater																				5	1					12
Pardalotidae	*Pardalotus striatus*	Striated Pardalote														X					56	9	1					3
Acanthizidae	*Pyrrholaemus brunneus*	Redthroat																	2			1	1					
	Acanthiza apicalis	Inland Thornbill																				14	1					
	Acanthiza chrysorrhoa	Yellow-rumped Thornbill																				4	1					
	Acanthiza uropygialis	Chestnut-rumped Thornbill																	33		2	25	1	4			1	
	Smicrornis brevirostris	Weebill									1					X			12		155	77	1	1		3		
	Gerygone fusca	Western Gerygone																					1					
	Aphelocephala leucopsis	Southern Whiteface																					1					
Pomatostomidae	*Pomatostomus superciliosus*	White-browed Babbler														X			1		5	28	1					1
Campephagidae	*Coracina maxima*	Ground Cuckooshrike																			4							
	Coracina novaehollandiae	Black-faced Cuckooshrike														X			6		13	9	1					
	Lalage tricolor	White-winged Triller																	2									
Neosittidae	*Daphoenositta chrysoptera*	Varied Sittella																			15						10	
Oreoicidae	*Oreoica gutturalis*	Crested Bellbird														X			5		5		1					1
Pachycephalidae	*Colluricincla harmonica*	Grey Shrikethrush														X					1	1	1				1	2
	Pachycephala pectoralis	Golden Whistler																					1					
	Pachycephala rufiventris	Rufous Whistler																					1					
Artamidae	*Artamus personatus*	Masked Woodswallow														X												
	Artamus cinereus	Black-faced Woodswallow														X					1	7	1					
	Artamus cyanopterus	Dusky Woodswallow																			3							
	Cracticus torquatus	Grey Butcherbird														X			5		3		1					
	Cracticus nigrogularis	Pied Butcherbird														X					9	2	1					
	Gymnorhina tibicen	Australian Magpie														X					30	4	1					
	Strepera versicolor	Grey Currawong														X			2		7	7	1					1
Rhipiduridae	*Rhipidura leucophrys*	Willie Wagtail														X					1	2	1					
	Rhipidura albiscapa	Grey Fantail																					1					

		Surveys	A													B			C				D	E					
Family	**Species**	**Common name**	**Golden Arrow Trans**	**Rose Trans**	**Palace Rehab**	**Golden Arrow Undist**	**Palace Undist**	**Crossroads**	**Golden Arrow Rehab**	**Palace Trans**	**Rose Rehab**	**Rose Undist**	**Wendy Gully Rehab**	**Wendy Gully Trans**	**Wendy Gully Undist**	**Binduli**	**MFM01**	**MFM02**	**KK4**	**KK1**	**KK2**	**KK11**	**Victoria Rock NR**	**KFS24**	**KFS23**	**KFS25**	**KFS26b**	**KFS26a**
Monarchidae	*Grallina cyanoleuca*	Magpie-lark														X					6		1						
Corvidae	*Corvus coronoides*	Australian Raven														X							1						
Petroicidae	*Microeca fascinans*	Jacky Winter														X			1		11	6	1						1
	Petroica goodenovii	Red-capped Robin																	5		5	6	1						
	Melanodryas cucullata	Hooded Robin																			1								
	Eopsaltria griseogularis	Western Yellow Robin																					1						
Hirundinidae	*Hirundo neoxena*	Welcome Swallow														X			4										
	Petrochelidon nigricans	Tree Martin														X					4		1						
Dicaeidae	*Dicaeum hirundinaceum*	Mistletoebird																					1						
Estrildidae	*Taeniopygia guttata*	Zebra Finch (Australian)																					1						
Motacillidae	*Anthus novaeseelandiae*	Australasian Pipit			4																1		1		1				
Mammals																													
Tachyglossidae	*Tachyglossus aculeatus*	Short-beaked Echidna														X													
Bovidae	*Capra hircus*	Goat														X													
Canidae	*Vulpes vulpes*	Red Fox														X						1							
Felidae	*Felis catus*	Cat														X													
Molossidae	*Austronomus australis*	White-striped Freetail Bat																		5	17	1	1						
	Mormopterus planiceps	Southern Free-tail Bat																		11	8								
Vespertilionidae	*Chalinolobus gouldii*	Gould's Wattled Bat																					1						
	Chalinolobus morio	Chocolate Wattled Bat																		1	3								
	Nyctophilus geoffroyi	Lesser Long-eared Bat																		1	2								
	Nyctophilus holtorum	Holt's Long-eared Bat																		10	42								
	Scotorepens balstoni	Inland Broad-nosed Bat																		2	11								
	Vespadelus regulus	Southern Forest Bat																		1	5								
Dasyuridae	*Ningaui* sp.	Ningaui Sp.	3			22			1			4		2	17														
	Sminthopsis sp.	Dunnart Sp.					2																						
	Antechinomys laniger	Kultarr		1									1																
	Ningaui ridei	Wongai Ningaui													2														
	Ningaui yvonneae	Mallee Ningaui																					1						
	Sminthopsis crassicaudata	Fat-tailed Dunnart	11	63	67	15	12	26	27	57	143	28	121	100	24				1	2	5	1							

		Surveys	A													B			C				D	E				
Family	Species	Common name	Golden Arrow Trans	Rose Trans	Palace Rehab	Golden Arrow Undist	Palace Undist	Crossroads	Golden Arrow Rehab	Palace Trans	Rose Rehab	Rose Undist	Wendy Gully Rehab	Wendy Gully Trans	Wendy Gully Undist	Binduli	MFM01	MFM02	KK4	KK1	KK2	KK11	Victoria Rock NR	KFS24	KFS23	KFS25	KFS26b	KFS26a
	Sminthopsis dolichura	Little Long-tailed Dunnart	16	5	2	25	36	11	17	4	2	28	7	4	32				7	1	3	4	1					
Burramyidae	*Cercartetus concinnus*	Southwestern Pygmy Possum	11	11	9	32	20	17	3	8	20	22	9	6	16				2		8	1						2
Macropodidae	*Macropus fuliginosus*	Western Grey Kangaroo														X			8		2	6	1					
	Osphranter robustus	Euro																				2	1					
	Osphranter rufus	Red Kangaroo																		1	15	8						
Leporidae	*Oryctolagus cuniculus*	Rabbit			1					1						X							1					
Muridae	*Mus musculus*	House Mouse	36	33	49	2	24	18	24	47	56	22	181	88	13				1		13	4	1		2	4		
	Notomys mitchellii	Mitchell's Hopping Mouse																					1					
	Pseudomys albocinereus	Ash-grey Mouse												1									1					
	Pseudomys bolami	Bolam's Mouse	39	19		3	13	8	35	4	25	24			5				9	2			1					
	Pseudomys hermannsburgensis	Sandy Inland Mouse	9			3	4	2	7			14	2	1	5													
	Pseudomys nanus	Western Chestnut Mouse																										

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		Surveys	A													B	C	D	E	F	G	H	I
Family	**Species**	**Common name**	**Burra Rock NR #6**	**Kurrawang NR #6**	**Kurrawang NR #4**	**Burra Rock NR #3**	**Kurrawang NR #7**	**Burra Rock NR #4**	**Kurrawang NR #2**	**Burra Rock NR #2**	**Kurrawang NR #1**	**Burra Rock NR #5**	**Kurrawang NR #5**	**Kurrawang NR #3**	**Burra Rock NR #1**	**White Foil**	**White Foil**	**Binduli North**	**Site 40a**	**Kurrawang**			
Amphibians																							
Myobatrachidae	*Pseudophryne occidentalis*	Western Toadlet	1																				
Reptiles																							
Agamidae	*Ctenophorus chapmani*	Chapman's Dragon																					
	Ctenophorus cristatus	Crested Dragon	1	1												1							X
	Ctenophorus fordi	Mallee Dragon			1																		
	Ctenophorus isolepis	Military Dragon																					X
	Ctenophorus ornatus	Ornate Crevice Dragon	1																				
	Ctenophorus reticulatus	Western Netted Dragon															1						
	Ctenophorus scutulatus	Lozenge-marked Dragon				1										1							
	Moloch horridus	Thorny Devil					1																X
	Pogona minor	Western Bearded Dragon	1													1							X
	Tympanocryptis cephalus	Pebble Dragon															1						
Carphodactylidae	*Underwoodisaurus milii*	Barking Gecko						1	1														
Diplodactylidae	*Diplodactylus pulcher*	Beautiful Gecko					1																
	Lucasium maini	Main's Ground Gecko				1			1	1	1												
	Strophurus assimilis	Goldfields Spiny-tailed Gecko	1						2														
Pygopodidae	*Delma australis*	Marble-faced Delma																					X
Elapidae	*Simoselaps bertholdi*	Jan's Banded Snake				1																	
Gekkonidae	*Gehyra variegata*	Variegated Gehyra							1	1						1							X
	Christinus marmoratus	Marble Gecko																					X
	Heteronotia binoei	Bynoe's Gecko					1									1							X
Scincidae	*Cryptoblepharus buchananii*	Buchanan's Snake-eyed Skink	1													1							X
	Ctenotus atlas	Southern Mallee Ctenotus			1																		X
	Ctenotus leonhardi	Leonhard's Ctenotus																					X
	Ctenotus schomburgkii	Barred Wedgesnout Ctenotus			1																		X
	Cyclodomorphus branchialis	Common Slender Bluetongue							1														
	Egernia depressa	Southern Pygmy Spiny-tailed Skink														1	1						
	Lerista kingi	King's Lerista																					X

		Surveys	A													B	C	D	E	F	G	H	I
Family	**Species**	**Common name**	**Burra Rock NR #6**	**Kurrawang NR #6**	**Kurrawang NR #4**	**Burra Rock NR #3**	**Kurrawang NR #7**	**Burra Rock NR #4**	**Kurrawang NR #2**	**Burra Rock NR #2**	**Kurrawang NR #1**	**Burra Rock NR #5**	**Kurrawang NR #5**	**Kurrawang NR #3**	**Burra Rock NR #1**	**White Foil**	**White Foil**	**Binduli North**	**Site 40a**	**Kurrawang**			
	Lerista picturata	Southern Robust Slider														1							
	Lerista timida	Timid Slider																					X
	Menetia greyii	Common Dwarf Skink					1																X
	Tiliqua occipitalis	Western Blue-tongued Lizard	1				1																
	Tiliqua rugosa	Bobtail					1																X
Varanidae	*Varanus gouldii*	Gould's Goanna														1							X
Birds																					X		
Casuariidae	*Dromaius novaehollandiae*	Emu					1			1		1				1	1	X					X
Megapodiidae	*Leipoa ocellata*	Malleefowl																	2			X	
Columbidae	*Phaps chalcoptera*	Common Bronzewing								1		1				1							X
	Ocyphaps lophotes	Crested Pigeon					1									1	1			1			X
Cuculidae	*Chrysococcyx lucidus*	Shining Bronze-Cuckoo														1							
Aegothelidae	*Aegotheles cristatus*	Australian Owlet-nightjar		1																			
Podargidae	*Podargus strigoides*	Tawny Frogmouth	1	1												1							
Charadriidae	*Vanellus tricolor*	Banded Lapwing										1											
Phalacrocoracidae	*Microcarbo melanoleucos*	Little Pied Cormorant	1																				
Turnicidae	*Turnix varius*	Painted Buttonquail																					X
Accipitridae	*Lophoictinia isura*	Square-tailed Kite		1													1						
	Hieraaetus morphnoides	Little Eagle								1		1								1			
	Haliastur sphenurus	Whiting Kite																					X
	Aquila audax	Wedge-tailed Eagle										1						X	1	1			X
	Accipiter fasciatus	Brown Goshawk																		1			
	Accipiter cirrocephalus	Collared Sparrowhawk										1											
Cuculidae	*Heteroscenes pallidus*	Pallid Cuckoo																		1			X
	Chrysococcyx basalis	Horsfield's Bronze-Cuckoo																					X
Climacteridae	*Climacteris rufus*	Rufous Treecreeper																					X
Meropidae	*Merops ornatus*	Rainbow Bee-eater	1		1							1	1	1		1							
Falconidae	*Falco cenchroides*	Nankeen Kestrel					1									1			1				X
	Falco berigora	Brown Falcon	1																				
Cacatuidae	*Eolophus roseicapilla*	Galah					1				1						1						X

		Surveys	A													B	C	D	E	F	G	H	I
Family	Species	Common name	Burra Rock NR #6	Kurrawang NR #6	Kurrawang NR #4	Burra Rock NR #3	Kurrawang NR #7	Burra Rock NR #4	Kurrawang NR #2	Burra Rock NR #2	Kurrawang NR #1	Burra Rock NR #5	Kurrawang NR #5	Kurrawang NR #3	Burra Rock NR #1	White Foil	White Foil	Binduli North	Site 40a	Kurrawang			
Psittaculidae	*Polytelis anthopeplus*	Regent Parrot	1			1	1	1	1	1				1					3				X
	Neophema elegans	Elegant Parrot																					
	Barnardius zonarius	Australian Ringneck	1			1		1				1				1	1	X		1			X
	Psephotus varius	Mulga Parrot					1														X		X
	Glossopsitta porphyrocephala	Purple-crowned Lorikeet	1					1		1							1	X		1			X
Psittacidae	*Platycercus icterotis*	Western Rosella (Inland)																					X
Ptilonorhynchidae	*Ptilonorhynchus maculata*	Spotted Bowerbird														1							
Maluridae	*Malurus pulcherrimus*	Blue-breasted Fairywren																		1			
	Malurus lamberti	Variegated Fairywren	1			1									1								
	Malurus splendens	Splendid Fairywren					1										1		7				
	Malurus leucopterus	White-winged Fairywren														1	1						
Meliphagidae	*Certhionyx variegatus*	Pied Honeyeater																					X
	Purnella albifrons	White-fronted Honeyeater														1	1		5	1			
	Lichenostomus cratitius	Purple-gaped Honeyeater	1			1														1			
	Manorina flavigula	Yellow-throated Miner		1			1		1							1				1			
	Acanthagenys rufogularis	Spiny-cheeked Honeyeater	1						1					1		1	1	X	6	1	X		
	Anthochaera carunculata	Red Wattlebird	1				1		1		1		1	1		1		X		1	X		
	Gavicalis virescens	Singing Honeyeater														1	1	X	13	1			X
	Ptilotula ornata	Yellow-plumed Honeyeater	1		1		1		1		1		1				1			1	X		
	Lichmera indistincta	Brown Honeyeater	1									1	1			1	1			1	X		
	Nesoptilotis leucotis	White-eared Honeyeater	1					1		1			1			1	1			1	X		X
	Nesoptilotis flavicollis	Yellow-throated Honeyeater															1						X
	Melithreptus brevirostris	Brown-headed Honeyeater						1												1	X		
Pardalotidae	*Pardalotus striatus*	Striated Pardalote	1		1	1			1	1	1			1		1	1	X		1	X		X
Acanthizidae	*Pyrrholaemus brunneus*	Redthroat				1		1							1	1			20				X
	Acanthiza apicalis	Inland Thornbill	1	1				1		1					1	1	1		45	1	X		
	Acanthiza chrysorrhoa	Yellow-rumped Thornbill	1		1							1	1			1				1			
	Acanthiza uropygialis	Chestnut-rumped Thornbill			1								1			1	1		2	1	X		
	Smicrornis brevirostris	Weebill	1		1	1		1	1	1	1		1	1			1	X	2	1	X		X
Pomatostomidae	*Pomatostomus superciliosus*	White-browed Babbler						1								1	1		5	1	X		

		Surveys	A													B	C	D	E	F	G	H	I
Family	**Species**	**Common name**	**Burra Rock NR #6**	**Kurrawang NR #6**	**Kurrawang NR #4**	**Burra Rock NR #3**	**Kurrawang NR #7**	**Burra Rock NR #4**	**Kurrawang NR #2**	**Burra Rock NR #2**	**Kurrawang NR #1**	**Burra Rock NR #5**	**Kurrawang NR #5**	**Kurrawang NR #3**	**Burra Rock NR #1**	**White Foil**	**White Foil**	**Binduli North**	**Site 40a**	**Kurrawang**			
Cinclosomatidae	*Cinclosoma castanotum*	Chestnut Quail-thrush		1									1										X
Campephagidae	*Coracina maxima*	Ground Cuckooshrike					1																
	Coracina novaehollandiae	Black-faced Cuckooshrike				1	1				1					1	1			1			X
	Lalage tricolor	White-winged Triller																		1			
Neosittidae	*Daphoenositta chrysoptera*	Varied Sittella															1	5			X		
Oreoicidae	*Oreoica gutturalis*	Crested Bellbird	1		1		1						1	1	1	1		X	4		X		
Pachycephalidae	*Colluricincla harmonica*	Grey Shrikethrush	1			1	1					1	1		1	1	1		5	1	X		
	Pachycephala inornata	Gilbert's Whistler																	1				
	Pachycephala rufiventris	Rufous Whistler																X	6				X
Artamidae	*Artamus personatus*	Masked Woodswallow										1											
	Artamus cinereus	Black-faced Woodswallow											1										
	Artamus cyanopterus	Dusky Woodswallow	1																	1			
	Cracticus torquatus	Grey Butcherbird	1		1		1		1					1		1				1			
	Cracticus nigrogularis	Pied Butcherbird			1		1		1					1		1	1			1			
	Gymnorhina tibicen	Australian Magpie					1									1	1	X		1			
	Strepera versicolor	Grey Currawong	1	1			1	1		1		1			1	1	1	X			X		X
Rhipiduridae	*Rhipidura leucophrys*	Willie Wagtail										1				1	1	X					X
	Rhipidura albiscapa	Grey Fantail																	3				
Monarchidae	*Grallina cyanoleuca*	Magpie-lark					1									1				1			
Corvidae	*Corvus bennetti*	Little Crow	1			1	1									1		X	11				
	Corvus coronoides	Australian Raven														1	1			1			X
Petroicidae	*Microeca fascinans*	Jacky Winter									1		1				1				X		
	Petroica goodenovii	Red-capped Robin	1				1					1					1		4	1			X
	Melanodryas cucullata	Hooded Robin																		1			
	Eopsaltria griseogularis	Western Yellow Robin	1																		X		
	Drymodes superciliaris	Northern Scrub-Robin				1		1															
Hirundinidae	*Petrochelidon ariel*	Fairy Martin															1						
	Petrochelidon nigricans	Tree Martin										1							2				
	Hirundo neoxena	Welcome Swallow																					X
Dicaeidae	*Dicaeum hirundinaceum*	Mistletoebird														1			1				

		Surveys	A													B	C	D	E	F	G	H	I
Family	**Species**	**Common name**	**Burra Rock NR #6**	**Kurrawang NR #6**	**Kurrawang NR #4**	**Burra Rock NR #3**	**Kurrawang NR #7**	**Burra Rock NR #4**	**Kurrawang NR #2**	**Burra Rock NR #2**	**Kurrawang NR #1**	**Burra Rock NR #5**	**Kurrawang NR #5**	**Kurrawang NR #3**	**Burra Rock NR #1**	**White Foil**	**White Foil**	**Binduli North**	**Site 40a**	**Kurrawang**			
Estrildidae	*Taeniopygia guttata*	Zebra Finch																					X
Motacillidae	*Anthus novaeseelandiae*	Australasian Pipit					1					1											
Mammals																							
Tachyglossidae	*Tachyglossus aculeatus*	Short-beaked Echidna			1									1		1							X
Bovidae	*Capra hircus*	Goat														1	1						
	Ovis aries	Sheep														1	1						
Canidae	*Vulpes vulpes*	Red Fox														1	1						
	Canis sp.																				X		
Felidae	*Felis catus*	Cat																X					X
Vespertilionidae	*Chalinolobus morio*	Chocolate Wattled Bat																					X
Vespertilionidae	*Chalinolobus geoffroyi*	Lesser Long-eared Bat																					X
Dasyuridae	*Ningaui yvonneae*	Mallee Ningaui							1														
	Sminthopsis crassicaudata	Fat-tailed Dunnart												2									
	Sminthopsis dolichura	Little Long-tailed Dunnart				2									1								
Burramyidae	*Cercartetus concinnus*	Southwestern Pygmy Possum									2												
Macropodidae	*Macropus fuliginosus*	Western Grey Kangaroo					1										1	X					X
	Osphranter robustus	Euro					1																
	Osphranter rufus	Red Kangaroo														1							
Leporidae	*Oryctolagus cuniculus*	Rabbit														1	1	X			X		X
Muridae	*Mus musculus*	House Mouse			1																		
	Notomys mitchellii	Mitchell's Hopping Mouse				2				8			1		1								
	Pseudomys hermannsburgensis	Sandy Inland Mouse							1														

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Appendix C.

Definitions of Significant Fauna under the WA *Biodiversity Conservation Act 2016* and Priority Species

Basic and targeted vertebrate fauna reconnaissance survey and risk assessment
Bullabulling Heap Leach Project



ATTACHMENT C
DEFINITIONS OF SIGNIFICANT FAUNA UNDER THE WA BIODIVERSITY CONSERVATION ACT 2016

Threatened, Extinct and Specially Protected fauna or flora[1] are species[2] which have been adequately searched for and are deemed to be, in the wild, threatened, extinct or in need of special protection, and have been gazetted as such. The *Wildlife Conservation (Specially Protected Fauna) Notice 2018* and the *Wildlife Conservation (Rare Flora) Notice 2018* have been transitioned under regulations 170, 171 and 172 of the *Biodiversity Conservation Regulations 2018* to be the lists of Threatened, Extinct and Specially Protected species under Part 2 of the *Biodiversity Conservation Act 2016*. Categories of Threatened, Extinct and Specially Protected fauna and flora are:

T Threatened Species

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

Threatened fauna is that subset of 'Specially Protected Fauna' listed under schedules 1 to 3 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for Threatened Fauna.

Threatened flora is that subset of 'Rare Flora' listed under schedules 1 to 3 of the *Wildlife Conservation (Rare Flora) Notice 2018* for Threatened Flora.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

CR Critically endangered species

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

Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines. Published under schedule 1 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for critically endangered fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for critically endangered flora.

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

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

EN Endangered species

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

Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines. Published under schedule 2 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for endangered fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for endangered flora.

VU Vulnerable species

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

Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines. Published under schedule 3 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for vulnerable fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for vulnerable flora.

Extinct Species

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

EX Extinct species

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

Published as presumed extinct under schedule 4 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for extinct fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for extinct flora.

EW Extinct in the wild species

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

Currently there are no threatened fauna or threatened flora species listed as extinct in the pwild. If listing of a species as extinct in the wild occurs, then a schedule will be added to the applicable notice.

Specially Protected Species

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

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

MI Migratory birds protected under an international agreement

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

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

Published as migratory birds protected under an international agreement under schedule 5 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

CD Species of special conservation interest (conservation dependant fauna)

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

Published as conservation dependent fauna under schedule 6 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

OS Other specially protected species

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

Published as other specially protected fauna under schedule 7 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

P Priority species

Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened fauna or flora.

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

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

P1 Priority 1: Poorly-known species

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.

P2 Priority 2: Poorly-known species

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.

P3 Priority 3: Poorly-known species

Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

P4 Priority 4: Rare, Near Threatened and other species in need of monitoring

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

(b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as Conservation Dependent.

(c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

Appendix D.
Fauna habitat assessment results

Basic and targeted vertebrate fauna reconnaissance survey and risk assessment
Bullabulling Heap Leach Project



Date: 3/11/2021 | Habitat Assessment #: 1 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298746 mE | Northing: 6566834 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 | Habitat Assessment #: 2 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298741 mE | Northing: 6567158 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 3 Observer: Dr Scott Thompson

Zone: 50 Easting: 298715 mE Northing: 6567460 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 | Habitat Assessment #: 4 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298726 mE | Northing: 6567769 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 5 Observer: Dr Scott Thompson

Zone: 50 Easting: 298979 mE Northing: 6568432 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 | Habitat Assessment #: 6 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298985 mE | Northing: 6568248 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: None/limited



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 7 Observer: Dr Scott Thompson

Zone: 50 Easting: 299025 mE Northing: 6568106 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 | Habitat Assessment #: 8 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299252 mE | Northing: 6568534 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 9 Observer: Dr Scott Thompson

Zone: 50 Easting: 299261 mE Northing: 6568285 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

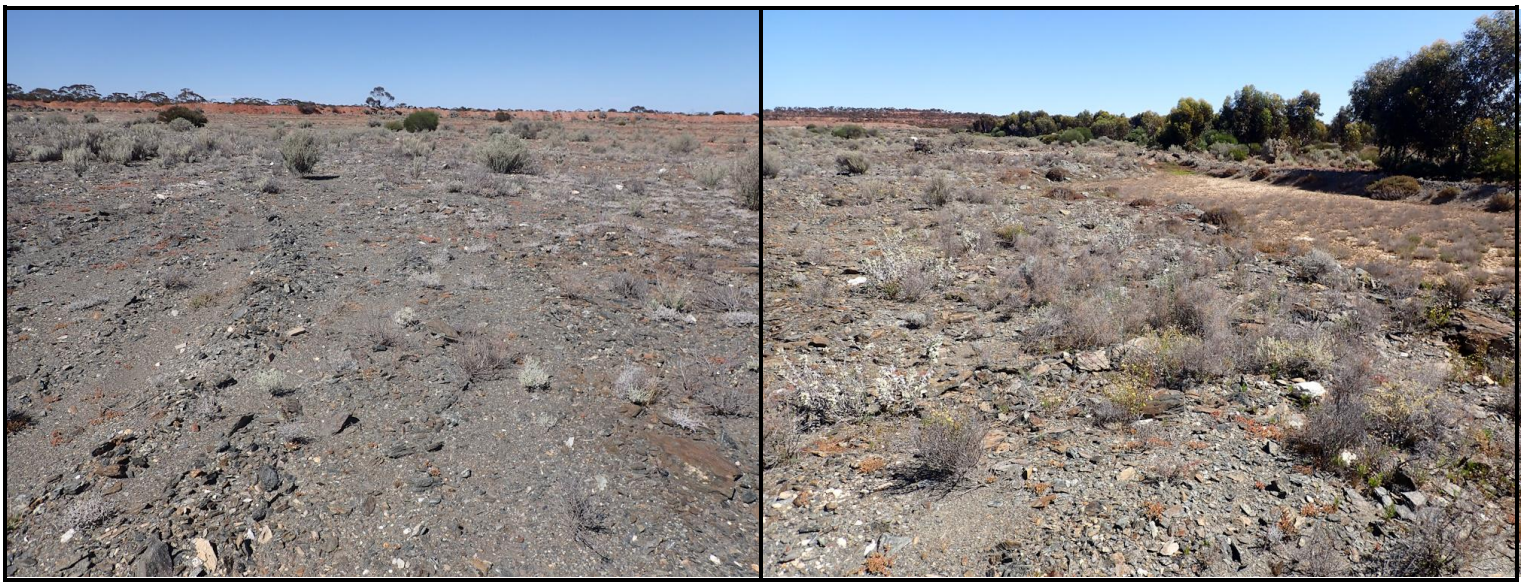
Date: 3/11/2021 Habitat Assessment #: 10 Observer: Dr Scott Thompson

Zone: 50 Easting: 299284 mE Northing: 6567986 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Grey shale



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 11 Observer: Dr Scott Thompson

Zone: 50 Easting: 299263 mE Northing: 6567809 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 12 Observer: Dr Scott Thompson

Zone: 50 Easting: 299456 mE Northing: 6567819 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 13 Observer: Dr Scott Thompson

Zone: 50 Easting: 299325 mE Northing: 6568695 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 | Habitat Assessment #: 14 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299574 mE | Northing: 6568785 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 | Habitat Assessment #: 15 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299546 mE | Northing: 6568559 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 16 Observer: Dr Scott Thompson

Zone: 50 Easting: 299552 mE Northing: 6568308 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 17 Observer: Dr Scott Thompson

Zone: 50 Easting: 299526 mE Northing: 6568038 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 18 Observer: Dr Scott Thompson

Zone: 50 Easting: 299639 mE Northing: 6567846 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 19 Observer: Dr Scott Thompson

Zone: 50 Easting: 299646 mE Northing: 6567981 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 20 Observer: Dr Scott Thompson

Zone: 50 Easting: 299620 mE Northing: 6568672 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 | Habitat Assessment #: 21 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299854 mE | Northing: 6569056 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 22 Observer: Dr Scott Thompson

Zone: 50 Easting: 299844 mE Northing: 6568838 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 23 Observer: Dr Scott Thompson

Zone: 50 Easting: 299845 mE Northing: 6568698 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 24 Observer: Dr Scott Thompson

Zone: 50 Easting: 299843 mE Northing: 6568630 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 25 Observer: Dr Scott Thompson

Zone: 50 Easting: 299944 mE Northing: 6568768 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 26 Observer: Dr Scott Thompson

Zone: 50 Easting: 300179 mE Northing: 6569236 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 | Habitat Assessment #: 27 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300153 mE | Northing: 6569012 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 28 Observer: Dr Scott Thompson

Zone: 50 Easting: 300189 mE Northing: 6568845 mN

Fire History: >5 years Landform: Mining area Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Pit Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 29 Observer: Dr Scott Thompson

Zone: 50 Easting: 300162 mE Northing: 6568594 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 30 Observer: Dr Scott Thompson

Zone: 50 Easting: 300159 mE Northing: 6568412 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 31 Observer: Dr Scott Thompson

Zone: 50 Easting: 300168 mE Northing: 6568173 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 32 Observer: Dr Scott Thompson

Zone: 50 Easting: 300474 mE Northing: 6569229 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 33 Observer: Dr Scott Thompson

Zone: 50 Easting: 300467 mE Northing: 6569060 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 34 Observer: Dr Scott Thompson

Zone: 50 Easting: 300470 mE Northing: 6568823 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 | Habitat Assessment #: 35 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300471 mE | Northing: 6568541 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 | Habitat Assessment #: 36 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300449 mE | Northing: 6568329 mN

Fire History: >5 years | Landform: Rehabilitation | Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 37 Observer: Dr Scott Thompson

Zone: 50 Easting: 300473 mE Northing: 6568135 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 | Habitat Assessment #: 38 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300469 mE | Northing: 6567884 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 39 Observer: Dr Scott Thompson

Zone: 50 Easting: 300430 mE Northing: 6567693 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 40 Observer: Dr Scott Thompson

Zone: 50 Easting: 300613 mE Northing: 6567486 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 41 Observer: Dr Scott Thompson

Zone: 50 Easting: 300778 mE Northing: 6569415 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 42 Observer: Dr Scott Thompson

Zone: 50 Easting: 300764 mE Northing: 6569178 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 43 Observer: Dr Scott Thompson

Zone: 50 Easting: 300737 mE Northing: 6568951 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 44 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300747 mE | Northing: 6568736 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 45 Observer: Dr Scott Thompson

Zone: 50 Easting: 300743 mE Northing: 6568517 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 46 Observer: Dr Scott Thompson

Zone: 50 Easting: 300769 mE Northing: 6568189 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 47 Observer: Dr Scott Thompson

Zone: 50 Easting: 300744 mE Northing: 6567997 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 48 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300756 mE | Northing: 6567778 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 49 Observer: Dr Scott Thompson

Zone: 50 Easting: 300755 mE Northing: 6567550 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 50 Observer: Dr Scott Thompson

Zone: 50 Easting: 300738 mE Northing: 6567364 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 51 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301082 mE | Northing: 6569530 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 52 Observer: Dr Scott Thompson

Zone: 50 Easting: 301077 mE Northing: 6569252 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 53 Observer: Dr Scott Thompson

Zone: 50 Easting: 301073 mE Northing: 6569095 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 54 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301073 mE | Northing: 6568788 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 55 Observer: Dr Scott Thompson

Zone: 50 Easting: 301067 mE Northing: 6568494 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 56 Observer: Dr Scott Thompson

Zone: 50 Easting: 301076 mE Northing: 6568360 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 57 Observer: Dr Scott Thompson

Zone: 50 Easting: 301035 mE Northing: 6568091 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 58 Observer: Dr Scott Thompson

Zone: 50 Easting: 301063 mE Northing: 6567863 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 59 Observer: Dr Scott Thompson

Zone: 50 Easting: 301047 mE Northing: 6567549 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 60 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301022 mE | Northing: 6567393 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 61 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301212 mE | Northing: 6569470 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 62 Observer: Dr Scott Thompson

Zone: 50 Easting: 301351 mE Northing: 6569257 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 63 Observer: Dr Scott Thompson

Zone: 50 Easting: 301351 mE Northing: 6569154 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 64 Observer: Dr Scott Thompson

Zone: 50 Easting: 301359 mE Northing: 6568965 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 65 Observer: Dr Scott Thompson

Zone: 50 Easting: 301372 mE Northing: 6568769 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 66 Observer: Dr Scott Thompson

Zone: 50 Easting: 301352 mE Northing: 6568550 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 67 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301367 mE | Northing: 6568310 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 68 Observer: Dr Scott Thompson

Zone: 50 Easting: 301375 mE Northing: 6568041 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 69 Observer: Dr Scott Thompson

Zone: 50 Easting: 301371 mE Northing: 6567770 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 70 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301367 mE | Northing: 6567539 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 71 Observer: Dr Scott Thompson

Zone: 50 Easting: 301440 mE Northing: 6568977 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 72 Observer: Dr Scott Thompson

Zone: 50 Easting: 301406 mE Northing: 6569191 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 73 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301650 mE | Northing: 6569220 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 74 Observer: Dr Scott Thompson

Zone: 50 Easting: 301666 mE Northing: 6568949 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 75 Observer: Dr Scott Thompson

Zone: 50 Easting: 301660 mE Northing: 6568688 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 76 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301669 mE | Northing: 6568471 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 77 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301647 mE | Northing: 6568248 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 78 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301659 mE | Northing: 6568023 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 79 Observer: Dr Scott Thompson

Zone: 50 Easting: 301670 mE Northing: 6567773 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 80 Observer: Dr Scott Thompson

Zone: 50 Easting: 301960 mE Northing: 6569161 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 81 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301954 mE | Northing: 6568426 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 82 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301959 mE | Northing: 6568222 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 83 Observer: Dr Scott Thompson

Zone: 50 Easting: 301941 mE Northing: 6568008 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 84 Observer: Dr Scott Thompson

Zone: 50 Easting: 301954 mE Northing: 6567759 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 85 Observer: Dr Scott Thompson

Zone: 50 Easting: 302051 mE Northing: 6568184 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 86 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 302256 mE | Northing: 6569270 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 87 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 302251 mE | Northing: 6569094 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 88 Observer: Dr Scott Thompson

Zone: 50 Easting: 302209 mE Northing: 6568850 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 89 Observer: Dr Scott Thompson

Zone: 50 Easting: 302241 mE Northing: 6568626 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 90 Observer: Dr Scott Thompson

Zone: 50 Easting: 302256 mE Northing: 6568419 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 91 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 302246 mE | Northing: 6568241 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 92 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 302257 mE | Northing: 6567904 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 93 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 302248 mE | Northing: 6567730 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 94 Observer: Dr Scott Thompson

Zone: 50 Easting: 301574 mE Northing: 6567400 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 95 Observer: Dr Scott Thompson

Zone: 50 Easting: 301569 mE Northing: 6567233 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 96 Observer: Dr Scott Thompson

Zone: 50 Easting: 301264 mE Northing: 6567327 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 97 Observer: Dr Scott Thompson

Zone: 50 Easting: 301288 mE Northing: 6567159 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 98 Observer: Dr Scott Thompson

Zone: 50 Easting: 301278 mE Northing: 6566956 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 99 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301280 mE | Northing: 6566816 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 100 Observer: Dr Scott Thompson

Zone: 50 Easting: 301282 mE Northing: 6566432 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 101 Observer: Dr Scott Thompson

Zone: 50 Easting: 301274 mE Northing: 6566219 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 102 Observer: Dr Scott Thompson

Zone: 50 Easting: 301263 mE Northing: 6566089 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 103 Observer: Dr Scott Thompson

Zone: 50 Easting: 301279 mE Northing: 6565900 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 104 Observer: Dr Scott Thompson

Zone: 50 Easting: 301268 mE Northing: 6565709 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 105 Observer: Dr Scott Thompson

Zone: 50 Easting: 301273 mE Northing: 6565495 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 106 Observer: Dr Scott Thompson

Zone: 50 Easting: 301308 mE Northing: 6565256 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 107 Observer: Dr Scott Thompson

Zone: 50 Easting: 301285 mE Northing: 6565097 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 108 Observer: Dr Scott Thompson

Zone: 50 Easting: 301272 mE Northing: 6564809 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 109 Observer: Dr Scott Thompson

Zone: 50 Easting: 301333 mE Northing: 6566050 mN

Fire History: >5 years Landform: Plain Soil Type: Rocky

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Rocky



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 110 Observer: Dr Scott Thompson

Zone: 50 Easting: 301577 mE Northing: 6566109 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 111 Observer: Dr Scott Thompson

Zone: 50 Easting: 301564 mE Northing: 6565939 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 112 Observer: Dr Scott Thompson

Zone: 50 Easting: 301608 mE Northing: 6565610 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 113 Observer: Dr Scott Thompson

Zone: 50 Easting: 301594 mE Northing: 6565409 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 114 Observer: Dr Scott Thompson

Zone: 50 Easting: 301588 mE Northing: 6565268 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 115 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301867 mE | Northing: 6565989 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 116 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301869 mE | Northing: 6565827 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 117 Observer: Dr Scott Thompson

Zone: 50 Easting: 300035 mE Northing: 6567146 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 118 Observer: Dr Scott Thompson

Zone: 50 Easting: 300008 mE Northing: 6567296 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 119 Observer: Dr Scott Thompson

Zone: 50 Easting: 299926 mE Northing: 6567404 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 120 Observer: Dr Scott Thompson

Zone: 50 Easting: 299811 mE Northing: 6567446 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 121 Observer: Dr Scott Thompson

Zone: 50 Easting: 299752 mE Northing: 6567579 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 122 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299790 mE | Northing: 6567735 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 123 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299614 mE | Northing: 6567703 mN

Fire History: >5 years | Landform: Rehabilitation | Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 124 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299654 mE | Northing: 6567490 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 125 Observer: Dr Scott Thompson

Zone: 50 Easting: 299715 mE Northing: 6567159 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 126 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299935 mE | Northing: 6566988 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 127 Observer: Dr Scott Thompson

Zone: 50 Easting: 299879 mE Northing: 6566835 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 128 Observer: Dr Scott Thompson

Zone: 50 Easting: 299964 mE Northing: 6566727 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 129 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299829 mE | Northing: 6566686 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 130 Observer: Dr Scott Thompson

Zone: 50 Easting: 299788 mE Northing: 6566533 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 131 Observer: Dr Scott Thompson

Zone: 50 Easting: 299863 mE Northing: 6566432 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 132 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300059 mE | Northing: 6566438 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 | Habitat Assessment #: 133 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299995 mE | Northing: 6566552 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 134 Observer: Dr Scott Thompson

Zone: 50 Easting: 300056 mE Northing: 6566593 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 135 Observer: Dr Scott Thompson

Zone: 50 Easting: 300058 mE Northing: 6566939 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 136 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298744 mE | Northing: 6566621 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 137 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298723 mE | Northing: 6566436 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 138 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298732 mE | Northing: 6566304 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Boulders and stones



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 139 Observer: Dr Scott Thompson

Zone: 50 Easting: 298731 mE Northing: 6566100 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 140 Observer: Dr Scott Thompson

Zone: 50 Easting: 298767 mE Northing: 6565891 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 141 Observer: Dr Scott Thompson

Zone: 50 Easting: 298950 mE Northing: 6565130 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 142 Observer: Dr Scott Thompson

Zone: 50 Easting: 298965 mE Northing: 6564841 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 143 Observer: Dr Scott Thompson

Zone: 50 Easting: 299173 mE Northing: 6564231 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 144 Observer: Dr Scott Thompson

Zone: 50 Easting: 299180 mE Northing: 6564456 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 145 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299199 mE | Northing: 6564661 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 146 Observer: Dr Scott Thompson

Zone: 50 Easting: 299179 mE Northing: 6565053 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 147 Observer: Dr Scott Thompson

Zone: 50 Easting: 299200 mE Northing: 6565191 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 148 Observer: Dr Scott Thompson

Zone: 50 Easting: 299471 mE Northing: 6563783 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 149 Observer: Dr Scott Thompson

Zone: 50 Easting: 299480 mE Northing: 6564334 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 150 Observer: Dr Scott Thompson

Zone: 50 Easting: 299487 mE Northing: 6564530 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 151 Observer: Dr Scott Thompson

Zone: 50 Easting: 299433 mE Northing: 6564543 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 152 Observer: Dr Scott Thompson

Zone: 50 Easting: 299476 mE Northing: 6564667 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 153 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299784 mE | Northing: 6563432 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 154 Observer: Dr Scott Thompson

Zone: 50 Easting: 299796 mE Northing: 6563617 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 155 Observer: Dr Scott Thompson

Zone: 50 Easting: 299776 mE Northing: 6564024 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 156 Observer: Dr Scott Thompson

Zone: 50 Easting: 299787 mE Northing: 6564277 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 157 Observer: Dr Scott Thompson

Zone: 50 Easting: 299763 mE Northing: 6564458 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 158 Observer: Dr Scott Thompson

Zone: 50 Easting: 299767 mE Northing: 6564522 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 159 Observer: Dr Scott Thompson

Zone: 50 Easting: 300105 mE Northing: 6563178 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 160 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300080 mE | Northing: 6563374 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 161 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300088 mE | Northing: 6563562 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 162 Observer: Dr Scott Thompson

Zone: 50 Easting: 300081 mE Northing: 6564326 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 163 Observer: Dr Scott Thompson

Zone: 50 Easting: 300099 mE Northing: 6564492 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 164 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300050 mE | Northing: 6564617 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 165 Observer: Dr Scott Thompson

Zone: 50 Easting: 300059 mE Northing: 6564840 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 166 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300090 mE | Northing: 6565049 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 167 Observer: Dr Scott Thompson

Zone: 50 Easting: 300090 mE Northing: 6565260 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 168 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300078 mE | Northing: 6565578 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 169 Observer: Dr Scott Thompson

Zone: 50 Easting: 300068 mE Northing: 6565759 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 170 Observer: Dr Scott Thompson

Zone: 50 Easting: 300070 mE Northing: 6565948 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 171 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300072 mE | Northing: 6566144 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 172 Observer: Dr Scott Thompson

Zone: 50 Easting: 300086 mE Northing: 6566343 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 173 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300170 mE | Northing: 6564101 mN

Fire History: >5 years | Landform: Exploration | Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed | Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 174 Observer: Dr Scott Thompson

Zone: 50 Easting: 300402 mE Northing: 6563077 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 175 Observer: Dr Scott Thompson

Zone: 50 Easting: 300388 mE Northing: 6563266 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 176 Observer: Dr Scott Thompson

Zone: 50 Easting: 300395 mE Northing: 6563505 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 177 Observer: Dr Scott Thompson

Zone: 50 Easting: 300413 mE Northing: 6563849 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 178 Observer: Dr Scott Thompson

Zone: 50 Easting: 300404 mE Northing: 6563983 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 179 Observer: Dr Scott Thompson

Zone: 50 Easting: 300410 mE Northing: 6564233 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 180 Observer: Dr Scott Thompson

Zone: 50 Easting: 300396 mE Northing: 6564594 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 181 Observer: Dr Scott Thompson

Zone: 50 Easting: 300379 mE Northing: 6564794 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 182 Observer: Dr Scott Thompson

Zone: 50 Easting: 300379 mE Northing: 6565121 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 183 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300392 mE | Northing: 6565359 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 184 Observer: Dr Scott Thompson

Zone: 50 Easting: 300375 mE Northing: 6565552 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 185 Observer: Dr Scott Thompson

Zone: 50 Easting: 300365 mE Northing: 6565712 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 186 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300358 mE | Northing: 6565870 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 187 Observer: Dr Scott Thompson

Zone: 50 Easting: 300375 mE Northing: 6566039 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 188 Observer: Dr Scott Thompson

Zone: 50 Easting: 300380 mE Northing: 6566142 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 189 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300634 mE | Northing: 6566158 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 190 Observer: Dr Scott Thompson

Zone: 50 Easting: 300604 mE Northing: 6566338 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 191 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300615 mE | Northing: 6566431 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 192 Observer: Dr Scott Thompson

Zone: 50 Easting: 300655 mE Northing: 6566612 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 193 Observer: Dr Scott Thompson

Zone: 50 Easting: 300614 mE Northing: 6566656 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 194 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300598 mE | Northing: 6566825 mN

Fire History: >5 years | Landform: Disturbed | Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 195 Observer: Dr Scott Thompson

Zone: 50 Easting: 300652 mE Northing: 6566968 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 196 Observer: Dr Scott Thompson

Zone: 50 Easting: 300651 mE Northing: 6567171 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 197 Observer: Dr Scott Thompson

Zone: 50 Easting: 300950 mE Northing: 6567242 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 198 Observer: Dr Scott Thompson

Zone: 50 Easting: 300952 mE Northing: 6567092 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 199 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300913 mE | Northing: 6566945 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 200 Observer: Dr Scott Thompson

Zone: 50 Easting: 300876 mE Northing: 6566850 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 201 Observer: Dr Scott Thompson

Zone: 50 Easting: 300907 mE Northing: 6566648 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 202 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300940 mE | Northing: 6566313 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 203 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300469 mE | Northing: 6565954 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 204 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300731 mE | Northing: 6562700 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 205 Observer: Dr Scott Thompson

Zone: 50 Easting: 300969 mE Northing: 6562619 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 206 Observer: Dr Scott Thompson

Zone: 50 Easting: 301157 mE Northing: 6562406 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 207 Observer: Dr Scott Thompson

Zone: 50 Easting: 301543 mE Northing: 6562123 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 208 Observer: Dr Scott Thompson

Zone: 50 Easting: 301132 mE Northing: 6562649 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 209 Observer: Dr Scott Thompson

Zone: 50 Easting: 300685 mE Northing: 6562977 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 210 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300917 mE | Northing: 6562837 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 211 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300885 mE | Northing: 6563023 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 212 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300918 mE | Northing: 6563202 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 213 Observer: Dr Scott Thompson

Zone: 50 Easting: 300896 mE Northing: 6563488 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 214 Observer: Dr Scott Thompson

Zone: 50 Easting: 300872 mE Northing: 6563780 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 215 Observer: Dr Scott Thompson

Zone: 50 Easting: 301048 mE Northing: 6563908 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 216 Observer: Dr Scott Thompson

Zone: 50 Easting: 301046 mE Northing: 6563696 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 217 Observer: Dr Scott Thompson

Zone: 50 Easting: 301050 mE Northing: 6563512 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 218 Observer: Dr Scott Thompson

Zone: 50 Easting: 301054 mE Northing: 6563313 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 219 Observer: Dr Scott Thompson

Zone: 50 Easting: 301052 mE Northing: 6563087 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 220 Observer: Dr Scott Thompson

Zone: 50 Easting: 301197 mE Northing: 6563344 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 221 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301202 mE | Northing: 6563494 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 222 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301212 mE | Northing: 6563595 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

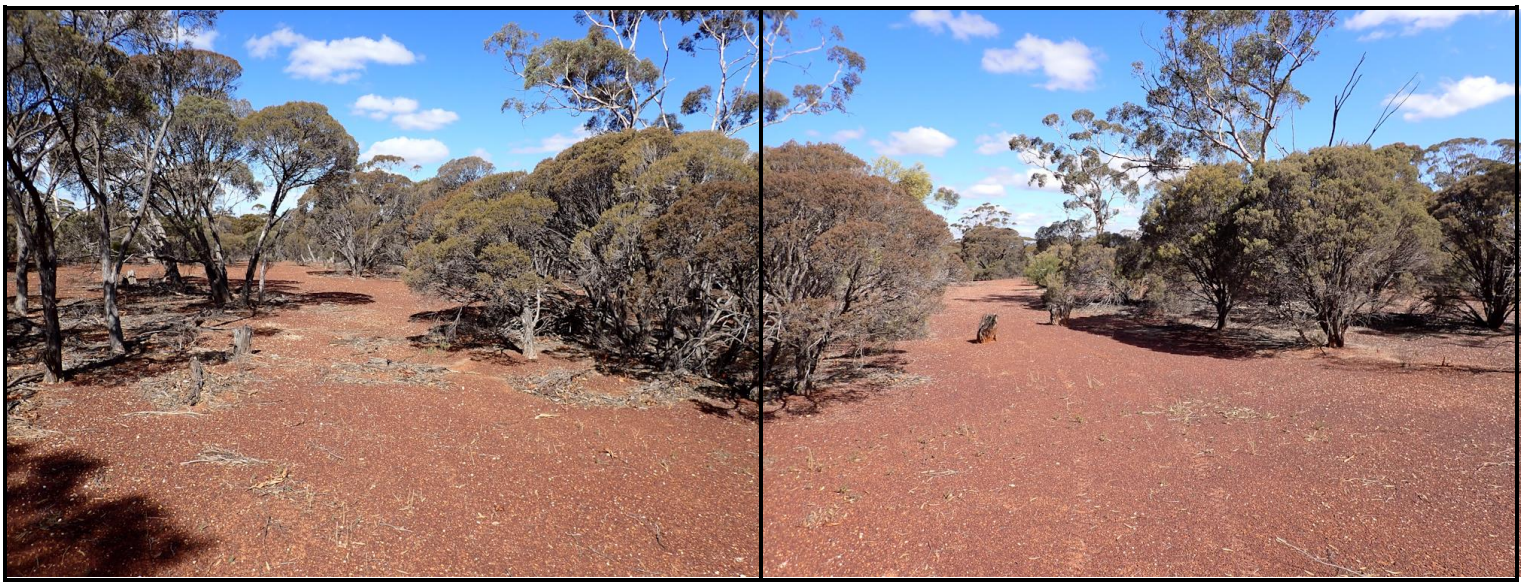
Date: 5/11/2021 Habitat Assessment #: 223 Observer: Dr Scott Thompson

Zone: 50 Easting: 301243 mE Northing: 6563703 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 224 Observer: Dr Scott Thompson

Zone: 50 Easting: 301178 mE Northing: 6563856 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 225 Observer: Dr Scott Thompson

Zone: 50 Easting: 300912 mE Northing: 6564066 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 226 Observer: Dr Scott Thompson

Zone: 50 Easting: 300891 mE Northing: 6564403 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 227 Observer: Dr Scott Thompson

Zone: 50 Easting: 300842 mE Northing: 6564768 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 228 Observer: Dr Scott Thompson

Zone: 50 Easting: 300839 mE Northing: 6564522 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 229 Observer: Dr Scott Thompson

Zone: 50 Easting: 300832 mE Northing: 6564378 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 230 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300847 mE | Northing: 6564186 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 231 Observer: Dr Scott Thompson

Zone: 50 Easting: 300910 mE Northing: 6565002 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 232 Observer: Dr Scott Thompson

Zone: 50 Easting: 300869 mE Northing: 6565140 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 233 Observer: Dr Scott Thompson

Zone: 50 Easting: 300910 mE Northing: 6565361 mN

Fire History: >5 years Landform: Rocky outcrop Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Rocky and pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 234 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300919 mE | Northing: 6565584 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 235 Observer: Dr Scott Thompson

Zone: 50 Easting: 300903 mE Northing: 6565812 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 236 Observer: Dr Scott Thompson

Zone: 50 Easting: 300892 mE Northing: 6566004 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 237 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300838 mE | Northing: 6566159 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 238 Observer: Dr Scott Thompson

Zone: 50 Easting: 298816 mE Northing: 6568654 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 239 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298368 mE | Northing: 6568846 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 240 Observer: Dr Scott Thompson

Zone: 50 Easting: 298388 mE Northing: 6568995 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 241 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298352 mE | Northing: 6569166 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 242 Observer: Dr Scott Thompson

Zone: 50 Easting: 298345 mE Northing: 6569364 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 243 Observer: Dr Scott Thompson

Zone: 50 Easting: 298358 mE Northing: 6569556 mN

Fire History: >5 years Landform: Road Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 244 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298364 mE | Northing: 6569728 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 245 Observer: Dr Scott Thompson

Zone: 50 Easting: 298384 mE Northing: 6569923 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 246 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298374 mE | Northing: 6570170 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 247 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298408 mE | Northing: 6570361 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 248 Observer: Dr Scott Thompson

Zone: 50 Easting: 298452 mE Northing: 6570558 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 249 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298379 mE | Northing: 6570760 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 250 Observer: Dr Scott Thompson

Zone: 50 Easting: 298380 mE Northing: 6570983 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 251 Observer: Dr Scott Thompson

Zone: 50 Easting: 298386 mE Northing: 6571123 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 252 Observer: Dr Scott Thompson

Zone: 50 Easting: 298390 mE Northing: 6571326 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 253 Observer: Dr Scott Thompson

Zone: 50 Easting: 298741 mE Northing: 6571213 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 254 Observer: Dr Scott Thompson

Zone: 50 Easting: 298678 mE Northing: 6571202 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 255 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298664 mE | Northing: 6571025 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 256 Observer: Dr Scott Thompson

Zone: 50 Easting: 298697 mE Northing: 6570878 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 257 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298662 mE | Northing: 6570658 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 258 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298650 mE | Northing: 6570472 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 259 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298655 mE | Northing: 6570288 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 260 Observer: Dr Scott Thompson

Zone: 50 Easting: 298649 mE Northing: 6570109 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 261 Observer: Dr Scott Thompson

Zone: 50 Easting: 298649 mE Northing: 6569874 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 262 Observer: Dr Scott Thompson

Zone: 50 Easting: 298661 mE Northing: 6569703 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 263 Observer: Dr Scott Thompson

Zone: 50 Easting: 298684 mE Northing: 6569482 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

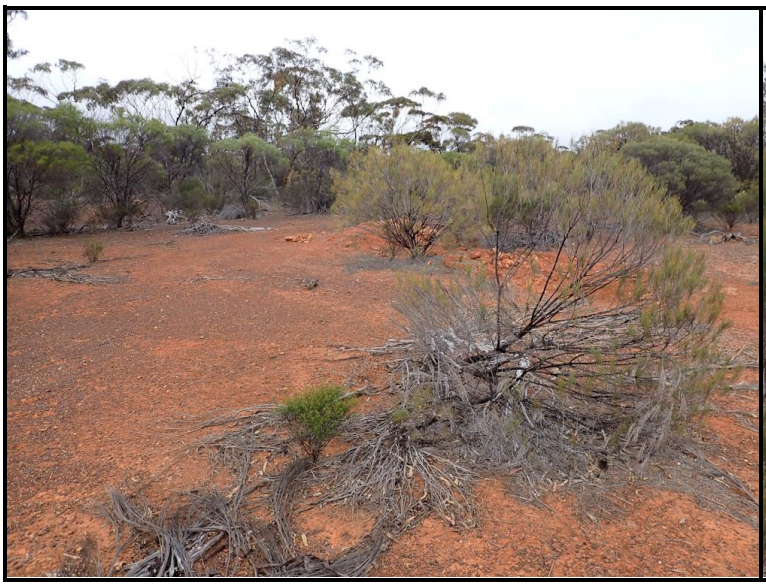
Date: 6/11/2021 Habitat Assessment #: 264 Observer: Dr Scott Thompson

Zone: 50 Easting: 298646 mE Northing: 6569289 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 265 Observer: Dr Scott Thompson

Zone: 50 Easting: 298661 mE Northing: 6569112 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 266 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298662 mE | Northing: 6568915 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 267 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298948 mE | Northing: 6568647 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 268 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299002 mE | Northing: 6568893 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 269 Observer: Dr Scott Thompson

Zone: 50 Easting: 298966 mE Northing: 6569170 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 270 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298960 mE | Northing: 6569454 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 271 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298953 mE | Northing: 6569798 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 272 Observer: Dr Scott Thompson

Zone: 50 Easting: 298988 mE Northing: 6569927 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 273 Observer: Dr Scott Thompson

Zone: 50 Easting: 298977 mE Northing: 6570101 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 274 Observer: Dr Scott Thompson

Zone: 50 Easting: 298931 mE Northing: 6570269 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 275 Observer: Dr Scott Thompson

Zone: 50 Easting: 298952 mE Northing: 6570469 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 276 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298983 mE | Northing: 6570608 mN

Fire History: >5 years | Landform: Rehabilitation | Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 277 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298974 mE | Northing: 6570830 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 278 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 298975 mE | Northing: 6571027 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 279 Observer: Dr Scott Thompson

Zone: 50 Easting: 298959 mE Northing: 6571147 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 280 Observer: Dr Scott Thompson

Zone: 50 Easting: 298997 mE Northing: 6571283 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 281 Observer: Dr Scott Thompson

Zone: 50 Easting: 299248 mE Northing: 6571267 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 282 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299263 mE | Northing: 6571115 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 283 Observer: Dr Scott Thompson

Zone: 50 Easting: 299240 mE Northing: 6570916 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 284 Observer: Dr Scott Thompson

Zone: 50 Easting: 299246 mE Northing: 6570722 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 285 Observer: Dr Scott Thompson

Zone: 50 Easting: 299264 mE Northing: 6570546 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 286 Observer: Dr Scott Thompson

Zone: 50 Easting: 299260 mE Northing: 6570373 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 287 Observer: Dr Scott Thompson

Zone: 50 Easting: 299253 mE Northing: 6569938 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 288 Observer: Dr Scott Thompson

Zone: 50 Easting: 299266 mE Northing: 6569727 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 289 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299291 mE | Northing: 6569471 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 290 Observer: Dr Scott Thompson

Zone: 50 Easting: 299260 mE Northing: 6569278 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 291 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299274 mE | Northing: 6569059 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 292 Observer: Dr Scott Thompson

Zone: 50 Easting: 299261 mE Northing: 6568857 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 293 Observer: Dr Scott Thompson

Zone: 50 Easting: 299541 mE Northing: 6569048 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 294 Observer: Dr Scott Thompson

Zone: 50 Easting: 299549 mE Northing: 6569204 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 295 Observer: Dr Scott Thompson

Zone: 50 Easting: 299555 mE Northing: 6569390 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 296 Observer: Dr Scott Thompson

Zone: 50 Easting: 299555 mE Northing: 6569617 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 297 Observer: Dr Scott Thompson

Zone: 50 Easting: 299532 mE Northing: 6569851 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 298 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299554 mE | Northing: 6570080 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 299 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299558 mE | Northing: 6570291 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 300 Observer: Dr Scott Thompson

Zone: 50 Easting: 299566 mE Northing: 6570502 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 301 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299553 mE | Northing: 6570716 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 302 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299572 mE | Northing: 6570926 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 303 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299579 mE | Northing: 6571138 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 304 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299570 mE | Northing: 6571356 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 305 Observer: Dr Scott Thompson

Zone: 50 Easting: 299571 mE Northing: 6571557 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 306 Observer: Dr Scott Thompson

Zone: 50 Easting: 299554 mE Northing: 6571749 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 307 Observer: Dr Scott Thompson

Zone: 50 Easting: 299567 mE Northing: 6571933 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 308 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299558 mE | Northing: 6572159 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 309 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299555 mE | Northing: 6572346 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 310 Observer: Dr Scott Thompson

Zone: 50 Easting: 299569 mE Northing: 6572512 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 311 Observer: Dr Scott Thompson

Zone: 50 Easting: 299314 mE Northing: 6572564 mN

Fire History: >5 years Landform: Road Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 312 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299313 mE | Northing: 6572303 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 313 Observer: Dr Scott Thompson

Zone: 50 Easting: 299303 mE Northing: 6572087 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 314 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299330 mE | Northing: 6571880 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 315 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 299336 mE | Northing: 6571517 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 316 Observer: Dr Scott Thompson

Zone: 50 Easting: 299361 mE Northing: 6571307 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 317 Observer: Dr Scott Thompson

Zone: 50 Easting: 300037 mE Northing: 6572437 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 318 Observer: Dr Scott Thompson

Zone: 50 Easting: 300034 mE Northing: 6572199 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 319 Observer: Dr Scott Thompson

Zone: 50 Easting: 300019 mE Northing: 6571408 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 320 Observer: Dr Scott Thompson

Zone: 50 Easting: 300009 mE Northing: 6571225 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 321 Observer: Dr Scott Thompson

Zone: 50 Easting: 300042 mE Northing: 6570886 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

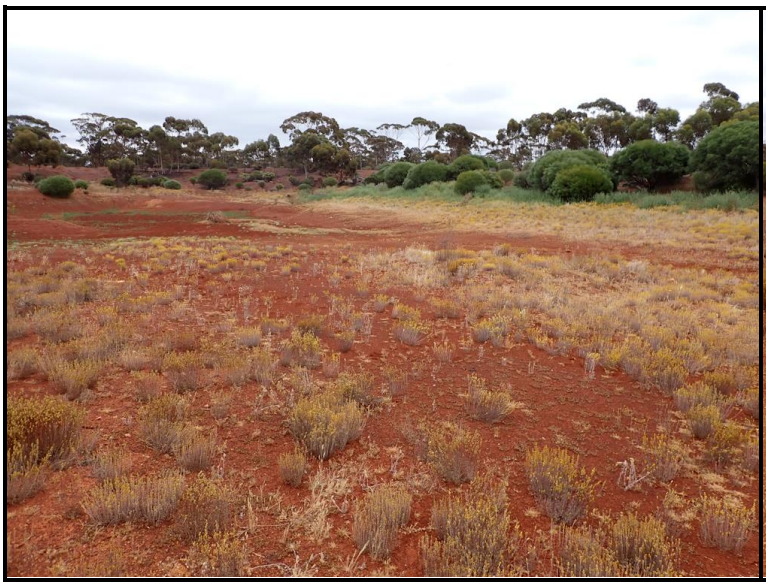
Date: 6/11/2021 | Habitat Assessment #: 322 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300007 mE | Northing: 6570669 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 323 Observer: Dr Scott Thompson

Zone: 50 Easting: 299988 mE Northing: 6570448 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 324 Observer: Dr Scott Thompson

Zone: 50 Easting: 299993 mE Northing: 6570256 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 325 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300024 mE | Northing: 6570056 mN

Fire History: >5 years | Landform: Exploration | Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 326 Observer: Dr Scott Thompson

Zone: 50 Easting: 300037 mE Northing: 6569816 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 327 Observer: Dr Scott Thompson

Zone: 50 Easting: 300025 mE Northing: 6569589 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 328 Observer: Dr Scott Thompson

Zone: 50 Easting: 300039 mE Northing: 6569398 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 329 Observer: Dr Scott Thompson

Zone: 50 Easting: 300168 mE Northing: 6569467 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 330 Observer: Dr Scott Thompson

Zone: 50 Easting: 300136 mE Northing: 6569692 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

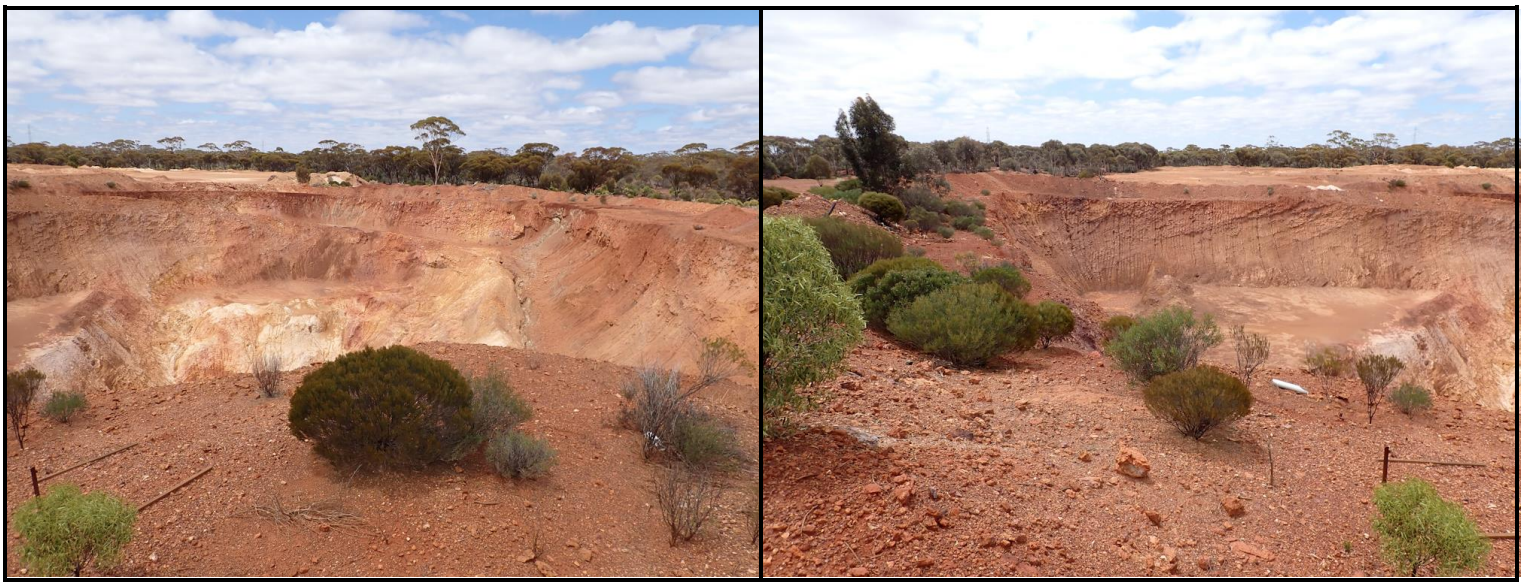
Date: 6/11/2021 Habitat Assessment #: 331 Observer: Dr Scott Thompson

Zone: 50 Easting: 300149 mE Northing: 6570142 mN

Fire History: >5 years Landform: Mining area Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 332 Observer: Dr Scott Thompson

Zone: 50 Easting: 300172 mE Northing: 6570345 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 333 Observer: Dr Scott Thompson

Zone: 50 Easting: 300134 mE Northing: 6570547 mN

Fire History: >5 years Landform: Disturbed Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 334 Observer: Dr Scott Thompson

Zone: 50 Easting: 300138 mE Northing: 6570931 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 335 Observer: Dr Scott Thompson

Zone: 50 Easting: 300142 mE Northing: 6571132 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 336 Observer: Dr Scott Thompson

Zone: 50 Easting: 300160 mE Northing: 6571372 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 337 Observer: Dr Scott Thompson

Zone: 50 Easting: 300156 mE Northing: 6571571 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 338 Observer: Dr Scott Thompson

Zone: 50 Easting: 300152 mE Northing: 6571785 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 339 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300146 mE | Northing: 6571972 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 340 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300142 mE | Northing: 6572176 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 341 Observer: Dr Scott Thompson

Zone: 50 Easting: 300133 mE Northing: 6572376 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 342 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300465 mE | Northing: 6572312 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 343 Observer: Dr Scott Thompson

Zone: 50 Easting: 300474 mE Northing: 6572098 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 344 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300458 mE | Northing: 6571870 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 345 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300450 mE | Northing: 6571658 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 346 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300460 mE | Northing: 6571413 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 347 Observer: Dr Scott Thompson

Zone: 50 Easting: 300435 mE Northing: 6571278 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 348 Observer: Dr Scott Thompson

Zone: 50 Easting: 300511 mE Northing: 6571027 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 349 Observer: Dr Scott Thompson

Zone: 50 Easting: 300495 mE Northing: 6570809 mN

Fire History: >5 years Landform: Road Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 350 Observer: Dr Scott Thompson

Zone: 50 Easting: 300470 mE Northing: 6570594 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 351 Observer: Dr Scott Thompson

Zone: 50 Easting: 300477 mE Northing: 6570352 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 352 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300471 mE | Northing: 6570164 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 353 Observer: Dr Scott Thompson

Zone: 50 Easting: 300442 mE Northing: 6569954 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 354 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300447 mE | Northing: 6569752 mN

Fire History: >5 years | Landform: Rehabilitation | Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 355 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300467 mE | Northing: 6569566 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 356 Observer: Dr Scott Thompson

Zone: 50 Easting: 300876 mE Northing: 6569685 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 357 Observer: Dr Scott Thompson

Zone: 50 Easting: 300904 mE Northing: 6569873 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 358 Observer: Dr Scott Thompson

Zone: 50 Easting: 300878 mE Northing: 6570111 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 359 Observer: Dr Scott Thompson

Zone: 50 Easting: 300899 mE Northing: 6570350 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 360 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300901 mE | Northing: 6570557 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 361 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 300902 mE | Northing: 6570749 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 362 Observer: Dr Scott Thompson

Zone: 50 Easting: 300909 mE Northing: 6570952 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 363 Observer: Dr Scott Thompson

Zone: 50 Easting: 300891 mE Northing: 6571171 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 364 Observer: Dr Scott Thompson

Zone: 50 Easting: 300924 mE Northing: 6571397 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 365 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301175 mE | Northing: 6571382 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 366 Observer: Dr Scott Thompson

Zone: 50 Easting: 301199 mE Northing: 6570944 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 367 Observer: Dr Scott Thompson

Zone: 50 Easting: 301197 mE Northing: 6570752 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 368 Observer: Dr Scott Thompson

Zone: 50 Easting: 301186 mE Northing: 6570501 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 369 Observer: Dr Scott Thompson

Zone: 50 Easting: 301153 mE Northing: 6570369 mN

Fire History: >5 years Landform: Road Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 370 Observer: Dr Scott Thompson

Zone: 50 Easting: 301184 mE Northing: 6570001 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 371 | Observer: Dr Scott Thompson

Zone: 50 | Easting: 301205 mE | Northing: 6569791 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 372 Observer: Dr Scott Thompson

Zone: 50 Easting: 301205 mE Northing: 6569791 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 373 Observer: Ray Turnbull

Zone: 50 Easting: 298823 mE Northing: 6566939 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 374 Observer: Ray Turnbull

Zone: 50 Easting: 298818 mE Northing: 6567168 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 375 Observer: Ray Turnbull

Zone: 50 Easting: 298842 mE Northing: 6567379 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 376 Observer: Ray Turnbull

Zone: 50 Easting: 298825 mE Northing: 6567535 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 377 Observer: Ray Turnbull

Zone: 50 Easting: 298858 mE Northing: 6568031 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 378 Observer: Ray Turnbull

Zone: 50 Easting: 298837 mE Northing: 6568209 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 379 Observer: Ray Turnbull

Zone: 50 Easting: 298825 mE Northing: 6568413 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 380 Observer: Ray Turnbull

Zone: 50 Easting: 298885 mE Northing: 6568391 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 381 Observer: Ray Turnbull

Zone: 50 Easting: 298900 mE Northing: 6568241 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 382 Observer: Ray Turnbull

Zone: 50 Easting: 298889 mE Northing: 6568111 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 383 Observer: Ray Turnbull

Zone: 50 Easting: 299117 mE Northing: 6568211 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 384 Observer: Ray Turnbull

Zone: 50 Easting: 299116 mE Northing: 6568383 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 385 Observer: Ray Turnbull

Zone: 50 Easting: 299118 mE Northing: 6568455 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 386 Observer: Ray Turnbull

Zone: 50 Easting: 299185 mE Northing: 6568526 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 387 Observer: Ray Turnbull

Zone: 50 Easting: 299175 mE Northing: 6568359 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 388 Observer: Ray Turnbull

Zone: 50 Easting: 299179 mE Northing: 6568255 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 389 Observer: Ray Turnbull

Zone: 50 Easting: 299192 mE Northing: 6568170 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 390 Observer: Ray Turnbull

Zone: 50 Easting: 299185 mE Northing: 6568020 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 391 Observer: Ray Turnbull

Zone: 50 Easting: 299173 mE Northing: 6567873 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 392 Observer: Ray Turnbull

Zone: 50 Easting: 299344 mE Northing: 6568199 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 393 Observer: Ray Turnbull

Zone: 50 Easting: 299415 mE Northing: 6568199 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 394 Observer: Ray Turnbull

Zone: 50 Easting: 299407 mE Northing: 6568415 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 395 Observer: Ray Turnbull

Zone: 50 Easting: 299403 mE Northing: 6568568 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 396 Observer: Ray Turnbull

Zone: 50 Easting: 299718 mE Northing: 6567934 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 397 Observer: Ray Turnbull

Zone: 50 Easting: 299698 mE Northing: 6568177 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 398 Observer: Ray Turnbull

Zone: 50 Easting: 299688 mE Northing: 6568577 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 399 Observer: Ray Turnbull

Zone: 50 Easting: 299722 mE Northing: 6568819 mN

Fire History: >5 years Landform: Road Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 400 Observer: Ray Turnbull

Zone: 50 Easting: 299691 mE Northing: 6569005 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 401 Observer: Ray Turnbull

Zone: 50 Easting: 300017 mE Northing: 6568652 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 402 Observer: Ray Turnbull

Zone: 50 Easting: 300013 mE Northing: 6568973 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 403 Observer: Ray Turnbull

Zone: 50 Easting: 300014 mE Northing: 6569144 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 404 Observer: Ray Turnbull

Zone: 50 Easting: 300311 mE Northing: 6568041 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 405 Observer: Ray Turnbull

Zone: 50 Easting: 300324 mE Northing: 6568222 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 406 Observer: Ray Turnbull

Zone: 50 Easting: 300324 mE Northing: 6568457 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 407 Observer: Ray Turnbull

Zone: 50 Easting: 300304 mE Northing: 6568933 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 408 Observer: Ray Turnbull

Zone: 50 Easting: 300310 mE Northing: 6569182 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 3/11/2021 Habitat Assessment #: 409 Observer: Ray Turnbull

Zone: 50 Easting: 300385 mE Northing: 6568311 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 410 Observer: Ray Turnbull

Zone: 50 Easting: 300607 mE Northing: 6567571 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 411 Observer: Ray Turnbull

Zone: 50 Easting: 300603 mE Northing: 6567868 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 412 Observer: Ray Turnbull

Zone: 50 Easting: 300616 mE Northing: 6568087 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 413 Observer: Ray Turnbull

Zone: 50 Easting: 300609 mE Northing: 6568286 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 414 Observer: Ray Turnbull

Zone: 50 Easting: 300588 mE Northing: 6568593 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 415 Observer: Ray Turnbull

Zone: 50 Easting: 300605 mE Northing: 6568875 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 416 Observer: Ray Turnbull

Zone: 50 Easting: 300608 mE Northing: 6569170 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 417 Observer: Ray Turnbull

Zone: 50 Easting: 300604 mE Northing: 6569363 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 418 Observer: Ray Turnbull

Zone: 50 Easting: 300885 mE Northing: 6567414 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 419 Observer: Ray Turnbull

Zone: 50 Easting: 300917 mE Northing: 6567717 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 420 Observer: Ray Turnbull

Zone: 50 Easting: 300910 mE Northing: 6568000 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 421 Observer: Ray Turnbull

Zone: 50 Easting: 300913 mE Northing: 6568357 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 422 Observer: Ray Turnbull

Zone: 50 Easting: 300935 mE Northing: 6568622 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 423 Observer: Ray Turnbull

Zone: 50 Easting: 300920 mE Northing: 6568949 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 424 Observer: Ray Turnbull

Zone: 50 Easting: 300920 mE Northing: 6569196 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 425 Observer: Ray Turnbull

Zone: 50 Easting: 300895 mE Northing: 6569457 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 426 Observer: Ray Turnbull

Zone: 50 Easting: 301198 mE Northing: 6567457 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 427 Observer: Ray Turnbull

Zone: 50 Easting: 301232 mE Northing: 6567786 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 428 Observer: Ray Turnbull

Zone: 50 Easting: 301213 mE Northing: 6567920 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 429 Observer: Ray Turnbull

Zone: 50 Easting: 301213 mE Northing: 6568031 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 430 Observer: Ray Turnbull

Zone: 50 Easting: 301213 mE Northing: 6568347 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 431 Observer: Ray Turnbull

Zone: 50 Easting: 301220 mE Northing: 6568621 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 432 Observer: Ray Turnbull

Zone: 50 Easting: 301220 mE Northing: 6568793 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 433 Observer: Ray Turnbull

Zone: 50 Easting: 301211 mE Northing: 6569044 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 434 Observer: Ray Turnbull

Zone: 50 Easting: 301218 mE Northing: 6569282 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 435 Observer: Ray Turnbull

Zone: 50 Easting: 301501 mE Northing: 6567556 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 436 Observer: Ray Turnbull

Zone: 50 Easting: 301503 mE Northing: 6567887 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 437 Observer: Ray Turnbull

Zone: 50 Easting: 301523 mE Northing: 6568153 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 438 Observer: Ray Turnbull

Zone: 50 Easting: 301517 mE Northing: 6568415 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 439 Observer: Ray Turnbull

Zone: 50 Easting: 301511 mE Northing: 6568622 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 440 Observer: Ray Turnbull

Zone: 50 Easting: 301496 mE Northing: 6568698 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 441 Observer: Ray Turnbull

Zone: 50 Easting: 301509 mE Northing: 6568982 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 442 Observer: Ray Turnbull

Zone: 50 Easting: 301510 mE Northing: 6569226 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 443 Observer: Ray Turnbull

Zone: 50 Easting: 301808 mE Northing: 6567711 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 444 Observer: Ray Turnbull

Zone: 50 Easting: 301799 mE Northing: 6567938 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 445 Observer: Ray Turnbull

Zone: 50 Easting: 301814 mE Northing: 6568179 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 446 Observer: Ray Turnbull

Zone: 50 Easting: 301826 mE Northing: 6568503 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 447 Observer: Ray Turnbull

Zone: 50 Easting: 301799 mE Northing: 6568734 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 448 Observer: Ray Turnbull

Zone: 50 Easting: 301817 mE Northing: 6568883 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 449 Observer: Ray Turnbull

Zone: 50 Easting: 301820 mE Northing: 6569140 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 450 Observer: Ray Turnbull

Zone: 50 Easting: 302126 mE Northing: 6567667 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 451 Observer: Ray Turnbull

Zone: 50 Easting: 302084 mE Northing: 6567934 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 452 Observer: Ray Turnbull

Zone: 50 Easting: 302114 mE Northing: 6568200 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 453 Observer: Ray Turnbull

Zone: 50 Easting: 302126 mE Northing: 6568501 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 454 Observer: Ray Turnbull

Zone: 50 Easting: 302108 mE Northing: 6568794 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 455 Observer: Ray Turnbull

Zone: 50 Easting: 302097 mE Northing: 6569058 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 456 Observer: Ray Turnbull

Zone: 50 Easting: 302122 mE Northing: 6569215 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 457 Observer: Ray Turnbull

Zone: 50 Easting: 301424 mE Northing: 6567017 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 458 Observer: Ray Turnbull

Zone: 50 Easting: 301449 mE Northing: 6567236 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 459 Observer: Ray Turnbull

Zone: 50 Easting: 301430 mE Northing: 6567411 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 460 Observer: Ray Turnbull

Zone: 50 Easting: 301417 mE Northing: 6565143 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 461 Observer: Ray Turnbull

Zone: 50 Easting: 301433 mE Northing: 6565444 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 462 Observer: Ray Turnbull

Zone: 50 Easting: 301449 mE Northing: 6565649 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 463 Observer: Ray Turnbull

Zone: 50 Easting: 301449 mE Northing: 6565912 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 464 Observer: Ray Turnbull

Zone: 50 Easting: 301418 mE Northing: 6566161 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 465 Observer: Ray Turnbull

Zone: 50 Easting: 301743 mE Northing: 6565649 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 466 Observer: Ray Turnbull

Zone: 50 Easting: 301765 mE Northing: 6565887 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 467 Observer: Ray Turnbull

Zone: 50 Easting: 301724 mE Northing: 6566091 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 468 Observer: Ray Turnbull

Zone: 50 Easting: 301121 mE Northing: 6564577 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 469 Observer: Ray Turnbull

Zone: 50 Easting: 301125 mE Northing: 6564884 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 470 Observer: Ray Turnbull

Zone: 50 Easting: 301148 mE Northing: 6565165 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 471 Observer: Ray Turnbull

Zone: 50 Easting: 301136 mE Northing: 6565486 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 472 Observer: Ray Turnbull

Zone: 50 Easting: 301138 mE Northing: 6565753 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 473 Observer: Ray Turnbull

Zone: 50 Easting: 301124 mE Northing: 6565927 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 474 Observer: Ray Turnbull

Zone: 50 Easting: 301151 mE Northing: 6566196 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 475 Observer: Ray Turnbull

Zone: 50 Easting: 301145 mE Northing: 6566499 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 476 Observer: Ray Turnbull

Zone: 50 Easting: 301142 mE Northing: 6566876 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 477 Observer: Ray Turnbull

Zone: 50 Easting: 301136 mE Northing: 6567039 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 478 Observer: Ray Turnbull

Zone: 50 Easting: 301138 mE Northing: 6567202 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 479 Observer: Ray Turnbull

Zone: 50 Easting: 300141 mE Northing: 6567166 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 480 Observer: Ray Turnbull

Zone: 50 Easting: 300137 mE Northing: 6567335 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 481 Observer: Ray Turnbull

Zone: 50 Easting: 300189 mE Northing: 6567465 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 482 Observer: Ray Turnbull

Zone: 50 Easting: 300301 mE Northing: 6567635 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 483 Observer: Ray Turnbull

Zone: 50 Easting: 300334 mE Northing: 6567875 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 484 Observer: Ray Turnbull

Zone: 50 Easting: 300118 mE Northing: 6568196 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 485 Observer: Ray Turnbull

Zone: 50 Easting: 299297 mE Northing: 6566772 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 486 Observer: Ray Turnbull

Zone: 50 Easting: 299024 mE Northing: 6566777 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 4/11/2021 Habitat Assessment #: 487 Observer: Ray Turnbull

Zone: 50 Easting: 299141 mE Northing: 6566931 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Re Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 488 Observer: Ray Turnbull

Zone: 50 Easting: 298878 mE Northing: 6565584 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 489 Observer: Ray Turnbull

Zone: 50 Easting: 298884 mE Northing: 6565871 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 490 Observer: Ray Turnbull

Zone: 50 Easting: 298872 mE Northing: 6566146 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 491 Observer: Ray Turnbull

Zone: 50 Easting: 298883 mE Northing: 6566365 mN

Fire History: >5 years Landform: Plain Soil Type: Granite outcrop

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Granite outcrop



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 492 | Observer: Ray Turnbull

Zone: 50 | Easting: 299022 mE | Northing: 6565711 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 493 Observer: Ray Turnbull

Zone: 50 Easting: 299030 mE Northing: 6565450 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 494 Observer: Ray Turnbull

Zone: 50 Easting: 299032 mE Northing: 6565215 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 495 Observer: Ray Turnbull

Zone: 50 Easting: 299049 mE Northing: 6565039 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 496 Observer: Ray Turnbull

Zone: 50 Easting: 299053 mE Northing: 6564748 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 497 Observer: Ray Turnbull

Zone: 50 Easting: 299026 mE Northing: 6564551 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 498 Observer: Ray Turnbull

Zone: 50 Easting: 299319 mE Northing: 6564765 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 499 Observer: Ray Turnbull

Zone: 50 Easting: 299343 mE Northing: 6564478 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 500 Observer: Ray Turnbull

Zone: 50 Easting: 299331 mE Northing: 6564253 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 501 Observer: Ray Turnbull

Zone: 50 Easting: 299356 mE Northing: 6564092 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 502 Observer: Ray Turnbull

Zone: 50 Easting: 299337 mE Northing: 6563920 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 503 Observer: Ray Turnbull

Zone: 50 Easting: 299628 mE Northing: 6564671 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 504 Observer: Ray Turnbull

Zone: 50 Easting: 299640 mE Northing: 6564435 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 505 Observer: Ray Turnbull

Zone: 50 Easting: 299647 mE Northing: 6564234 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

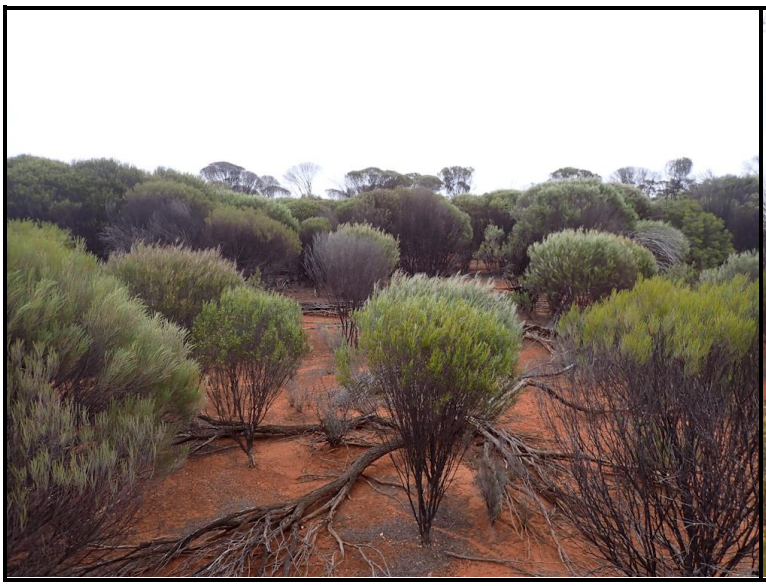
Date: 5/11/2021 Habitat Assessment #: 506 Observer: Ray Turnbull

Zone: 50 Easting: 299623 mE Northing: 6563964 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 507 Observer: Ray Turnbull

Zone: 50 Easting: 299627 mE Northing: 6563730 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 508 Observer: Ray Turnbull

Zone: 50 Easting: 299939 mE Northing: 6564616 mN

Fire History: >5 years Landform: Mining area Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 509 Observer: Ray Turnbull

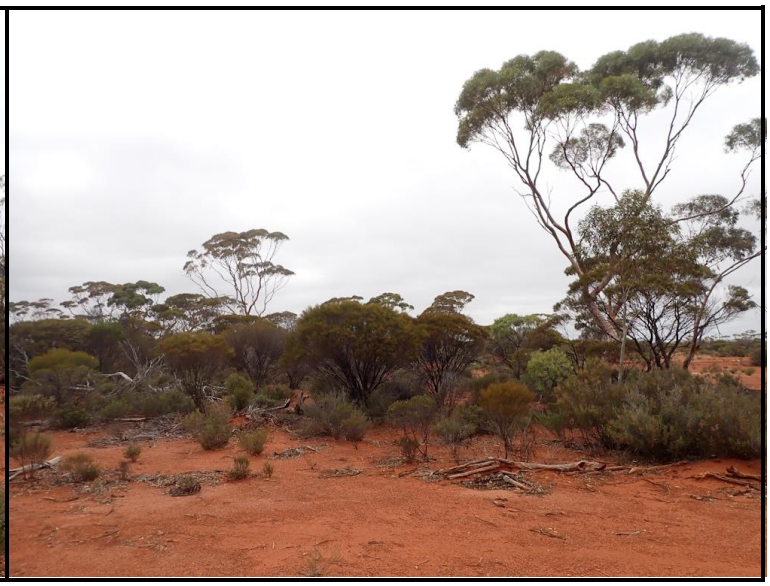
Zone: 50 Easting: 299952 mE Northing: 6564399 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 510 Observer: Ray Turnbull

Zone: 50 Easting: 299927 mE Northing: 6564094 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 511 Observer: Ray Turnbull

Zone: 50 Easting: 299934 mE Northing: 6563824 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 512 | Observer: Ray Turnbull

Zone: 50 | Easting: 299906 mE | Northing: 6563535 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 513 Observer: Ray Turnbull

Zone: 50 Easting: 299910 mE Northing: 6563298 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 514 Observer: Ray Turnbull

Zone: 50 Easting: 300227 mE Northing: 6566097 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 515 Observer: Ray Turnbull

Zone: 50 Easting: 300245 mE Northing: 6565799 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 516 Observer: Ray Turnbull

Zone: 50 Easting: 300233 mE Northing: 6565527 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 517 Observer: Ray Turnbull

Zone: 50 Easting: 300244 mE Northing: 6565272 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 518 Observer: Ray Turnbull

Zone: 50 Easting: 300216 mE Northing: 6565076 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 519 Observer: Ray Turnbull

Zone: 50 Easting: 300239 mE Northing: 6564810 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 520 Observer: Ray Turnbull

Zone: 50 Easting: 300251 mE Northing: 6564535 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 521 Observer: Ray Turnbull

Zone: 50 Easting: 300229 mE Northing: 6564297 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 522 Observer: Ray Turnbull

Zone: 50 Easting: 300238 mE Northing: 6564051 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 523 Observer: Ray Turnbull

Zone: 50 Easting: 300246 mE Northing: 6563812 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 524 Observer: Ray Turnbull

Zone: 50 Easting: 300208 mE Northing: 6563559 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 | Habitat Assessment #: 525 | Observer: Ray Turnbull

Zone: 50 | Easting: 300222 mE | Northing: 6563323 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 526 Observer: Ray Turnbull

Zone: 50 Easting: 300771 mE Northing: 6566241 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 527 Observer: Ray Turnbull

Zone: 50 Easting: 300762 mE Northing: 6566592 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 528 Observer: Ray Turnbull

Zone: 50 Easting: 300750 mE Northing: 6566721 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 529 Observer: Ray Turnbull

Zone: 50 Easting: 300786 mE Northing: 6566941 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 530 Observer: Ray Turnbull

Zone: 50 Easting: 300749 mE Northing: 6567173 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 531 Observer: Ray Turnbull

Zone: 50 Easting: 300882 mE Northing: 6567059 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Acacia and allocasuarina shrubland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 532 Observer: Ray Turnbull

Zone: 50 Easting: 300859 mE Northing: 6566855 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 533 Observer: Ray Turnbull

Zone: 50 Easting: 300856 mE Northing: 6566417 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 534 Observer: Ray Turnbull

Zone: 50 Easting: 300610 mE Northing: 6566060 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 535 Observer: Ray Turnbull

Zone: 50 Easting: 300630 mE Northing: 6565806 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 536 Observer: Ray Turnbull

Zone: 50 Easting: 300592 mE Northing: 6565528 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 537 Observer: Ray Turnbull

Zone: 50 Easting: 300630 mE Northing: 6565259 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 538 Observer: Ray Turnbull

Zone: 50 Easting: 300602 mE Northing: 6564949 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 539 Observer: Ray Turnbull

Zone: 50 Easting: 300617 mE Northing: 6564737 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 540 Observer: Ray Turnbull

Zone: 50 Easting: 300608 mE Northing: 6564467 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 541 Observer: Ray Turnbull

Zone: 50 Easting: 300622 mE Northing: 6564165 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 542 Observer: Ray Turnbull

Zone: 50 Easting: 300617 mE Northing: 6563835 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 543 Observer: Ray Turnbull

Zone: 50 Easting: 300599 mE Northing: 6563495 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 544 Observer: Ray Turnbull

Zone: 50 Easting: 300622 mE Northing: 6563169 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 545 Observer: Ray Turnbull

Zone: 50 Easting: 300614 mE Northing: 6562912 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 546 Observer: Ray Turnbull

Zone: 50 Easting: 300808 mE Northing: 6562738 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 547 Observer: Ray Turnbull

Zone: 50 Easting: 301122 mE Northing: 6562536 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 548 Observer: Ray Turnbull

Zone: 50 Easting: 300760 mE Northing: 6563026 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 549 Observer: Ray Turnbull

Zone: 50 Easting: 300777 mE Northing: 6563356 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 550 Observer: Ray Turnbull

Zone: 50 Easting: 300725 mE Northing: 6563666 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 551 Observer: Ray Turnbull

Zone: 50 Easting: 301057 mE Northing: 6564015 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 552 Observer: Ray Turnbull

Zone: 50 Easting: 301051 mE Northing: 6564237 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 553 Observer: Ray Turnbull

Zone: 50 Easting: 301202 mE Northing: 6564179 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 554 Observer: Ray Turnbull

Zone: 50 Easting: 301225 mE Northing: 6564006 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 555 Observer: Ray Turnbull

Zone: 50 Easting: 301355 mE Northing: 6564076 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 556 Observer: Ray Turnbull

Zone: 50 Easting: 301511 mE Northing: 6563918 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 557 Observer: Ray Turnbull

Zone: 50 Easting: 301368 mE Northing: 6563653 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 558 Observer: Ray Turnbull

Zone: 50 Easting: 301344 mE Northing: 6563834 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 559 Observer: Ray Turnbull

Zone: 50 Easting: 300978 mE Northing: 6564341 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 560 Observer: Ray Turnbull

Zone: 50 Easting: 300999 mE Northing: 6564772 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 561 Observer: Ray Turnbull

Zone: 50 Easting: 300767 mE Northing: 6564908 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 562 Observer: Ray Turnbull

Zone: 50 Easting: 300746 mE Northing: 6565156 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 563 Observer: Ray Turnbull

Zone: 50 Easting: 300772 mE Northing: 6565459 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 564 Observer: Ray Turnbull

Zone: 50 Easting: 300720 mE Northing: 6565693 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 5/11/2021 Habitat Assessment #: 565 Observer: Ray Turnbull

Zone: 50 Easting: 300760 mE Northing: 6565939 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 566 Observer: Ray Turnbull

Zone: 50 Easting: 298503 mE Northing: 6568823 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 567 Observer: Ray Turnbull

Zone: 50 Easting: 298546 mE Northing: 6569003 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 568 Observer: Ray Turnbull

Zone: 50 Easting: 298515 mE Northing: 6569235 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 569 Observer: Ray Turnbull

Zone: 50 Easting: 298499 mE Northing: 6569448 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 570 Observer: Ray Turnbull

Zone: 50 Easting: 298511 mE Northing: 6569682 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 571 Observer: Ray Turnbull

Zone: 50 Easting: 298534 mE Northing: 6570190 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 572 Observer: Ray Turnbull

Zone: 50 Easting: 298501 mE Northing: 6570688 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 573 Observer: Ray Turnbull

Zone: 50 Easting: 298515 mE Northing: 6570962 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 574 Observer: Ray Turnbull

Zone: 50 Easting: 298514 mE Northing: 6571374 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 575 Observer: Ray Turnbull

Zone: 50 Easting: 298800 mE Northing: 6571251 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 576 Observer: Ray Turnbull

Zone: 50 Easting: 298811 mE Northing: 6571064 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 577 Observer: Ray Turnbull

Zone: 50 Easting: 298788 mE Northing: 6570821 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 578 Observer: Ray Turnbull

Zone: 50 Easting: 298817 mE Northing: 6570576 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 579 Observer: Ray Turnbull

Zone: 50 Easting: 298818 mE Northing: 6570305 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 580 Observer: Ray Turnbull

Zone: 50 Easting: 298814 mE Northing: 6570032 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 581 Observer: Ray Turnbull

Zone: 50 Easting: 298809 mE Northing: 6569781 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 582 Observer: Ray Turnbull

Zone: 50 Easting: 298828 mE Northing: 6569460 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 583 Observer: Ray Turnbull

Zone: 50 Easting: 298849 mE Northing: 6569201 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 584 Observer: Ray Turnbull

Zone: 50 Easting: 298807 mE Northing: 6568839 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 585 Observer: Ray Turnbull

Zone: 50 Easting: 299100 mE Northing: 6568671 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 586 Observer: Ray Turnbull

Zone: 50 Easting: 299129 mE Northing: 6568905 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 587 | Observer: Ray Turnbull

Zone: 50 | Easting: 299111 mE | Northing: 6569209 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 588 Observer: Ray Turnbull

Zone: 50 Easting: 299103 mE Northing: 6569438 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 589 Observer: Ray Turnbull

Zone: 50 Easting: 299079 mE Northing: 6569721 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 590 Observer: Ray Turnbull

Zone: 50 Easting: 299100 mE Northing: 6570003 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

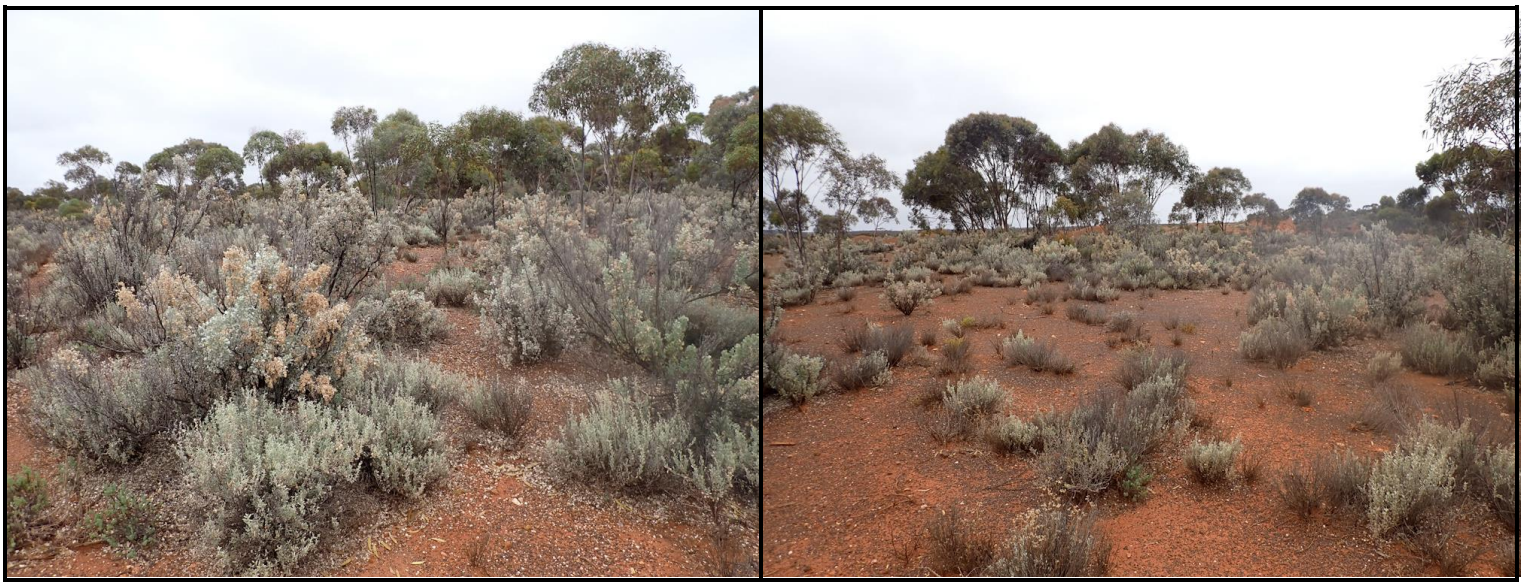
Date: 6/11/2021 Habitat Assessment #: 591 Observer: Ray Turnbull

Zone: 50 Easting: 299114 mE Northing: 6570234 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 592 Observer: Ray Turnbull

Zone: 50 Easting: 299121 mE Northing: 6570477 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 593 Observer: Ray Turnbull

Zone: 50 Easting: 299097 mE Northing: 6570742 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 594 Observer: Ray Turnbull

Zone: 50 Easting: 299127 mE Northing: 6571010 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 595 Observer: Ray Turnbull

Zone: 50 Easting: 299098 mE Northing: 6571201 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 596 Observer: Ray Turnbull

Zone: 50 Easting: 299412 mE Northing: 6571270 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 597 Observer: Ray Turnbull

Zone: 50 Easting: 299399 mE Northing: 6571009 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 598 Observer: Ray Turnbull

Zone: 50 Easting: 299425 mE Northing: 6570743 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 599 Observer: Ray Turnbull

Zone: 50 Easting: 299399 mE Northing: 6570509 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 600 Observer: Ray Turnbull

Zone: 50 Easting: 299384 mE Northing: 6570210 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 601 Observer: Ray Turnbull

Zone: 50 Easting: 299428 mE Northing: 6569978 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 602 | Observer: Ray Turnbull

Zone: 50 | Easting: 299418 mE | Northing: 6569713 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 603 Observer: Ray Turnbull

Zone: 50 Easting: 299410 mE Northing: 6569446 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 604 Observer: Ray Turnbull

Zone: 50 Easting: 299391 mE Northing: 6569142 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 605 Observer: Ray Turnbull

Zone: 50 Easting: 299431 mE Northing: 6568925 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 606 Observer: Ray Turnbull

Zone: 50 Easting: 299671 mE Northing: 6569311 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 607 Observer: Ray Turnbull

Zone: 50 Easting: 299707 mE Northing: 6569624 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 608 Observer: Ray Turnbull

Zone: 50 Easting: 299664 mE Northing: 6569827 mN

Fire History: >5 years Landform: Rehabilitation Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 609 Observer: Ray Turnbull

Zone: 50 Easting: 299696 mE Northing: 6570330 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 610 Observer: Ray Turnbull

Zone: 50 Easting: 299712 mE Northing: 6570656 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 611 | Observer: Ray Turnbull

Zone: 50 | Easting: 299687 mE | Northing: 6570947 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good | Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 612 Observer: Ray Turnbull

Zone: 50 Easting: 299700 mE Northing: 6571163 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 613 Observer: Ray Turnbull

Zone: 50 Easting: 299713 mE Northing: 6571424 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 614 Observer: Ray Turnbull

Zone: 50 Easting: 299715 mE Northing: 6571688 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 615 Observer: Ray Turnbull

Zone: 50 Easting: 299689 mE Northing: 6571988 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 616 Observer: Ray Turnbull

Zone: 50 Easting: 299731 mE Northing: 6572278 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 | Habitat Assessment #: 617 | Observer: Ray Turnbull

Zone: 50 | Easting: 299726 mE | Northing: 6572538 mN

Fire History: >5 years | Landform: Plain | Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good | Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 618 Observer: Ray Turnbull

Zone: 50 Easting: 299408 mE Northing: 6572581 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 619 Observer: Ray Turnbull

Zone: 50 Easting: 299444 mE Northing: 6572268 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 620 Observer: Ray Turnbull

Zone: 50 Easting: 299448 mE Northing: 6571954 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 621 Observer: Ray Turnbull

Zone: 50 Easting: 299452 mE Northing: 6571688 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 622 Observer: Ray Turnbull

Zone: 50 Easting: 299483 mE Northing: 6571406 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 623 Observer: Ray Turnbull

Zone: 50 Easting: 299869 mE Northing: 6572432 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 624 Observer: Ray Turnbull

Zone: 50 Easting: 299856 mE Northing: 6572196 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 625 Observer: Ray Turnbull

Zone: 50 Easting: 299873 mE Northing: 6571868 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 626 Observer: Ray Turnbull

Zone: 50 Easting: 299861 mE Northing: 6571584 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 627 Observer: Ray Turnbull

Zone: 50 Easting: 299877 mE Northing: 6571320 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 628 Observer: Ray Turnbull

Zone: 50 Easting: 299899 mE Northing: 6571102 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 629 Observer: Ray Turnbull

Zone: 50 Easting: 299877 mE Northing: 6570827 mN

Fire History: >5 years Landform: Mining area Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 630 Observer: Ray Turnbull

Zone: 50 Easting: 299856 mE Northing: 6570522 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 631 Observer: Ray Turnbull

Zone: 50 Easting: 299862 mE Northing: 6570255 mN

Fire History: >5 years Landform: Road Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 632 Observer: Ray Turnbull

Zone: 50 Easting: 299861 mE Northing: 6569815 mN

Fire History: >5 years Landform: Mining area Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 633 Observer: Ray Turnbull

Zone: 50 Easting: 299851 mE Northing: 6569512 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 634 Observer: Ray Turnbull

Zone: 50 Easting: 299884 mE Northing: 6569269 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 635 Observer: Ray Turnbull

Zone: 50 Easting: 300282 mE Northing: 6569466 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 636 Observer: Ray Turnbull

Zone: 50 Easting: 300333 mE Northing: 6569709 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 637 Observer: Ray Turnbull

Zone: 50 Easting: 300276 mE Northing: 6570039 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 638 Observer: Ray Turnbull

Zone: 50 Easting: 300310 mE Northing: 6570284 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 639 Observer: Ray Turnbull

Zone: 50 Easting: 300304 mE Northing: 6570549 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 640 Observer: Ray Turnbull

Zone: 50 Easting: 300310 mE Northing: 6570891 mN

Fire History: >5 years Landform: Exploration Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 641 Observer: Ray Turnbull

Zone: 50 Easting: 300317 mE Northing: 6571239 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 642 Observer: Ray Turnbull

Zone: 50 Easting: 300322 mE Northing: 6571514 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 643 Observer: Ray Turnbull

Zone: 50 Easting: 300350 mE Northing: 6571863 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 644 Observer: Ray Turnbull

Zone: 50 Easting: 300286 mE Northing: 6572156 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

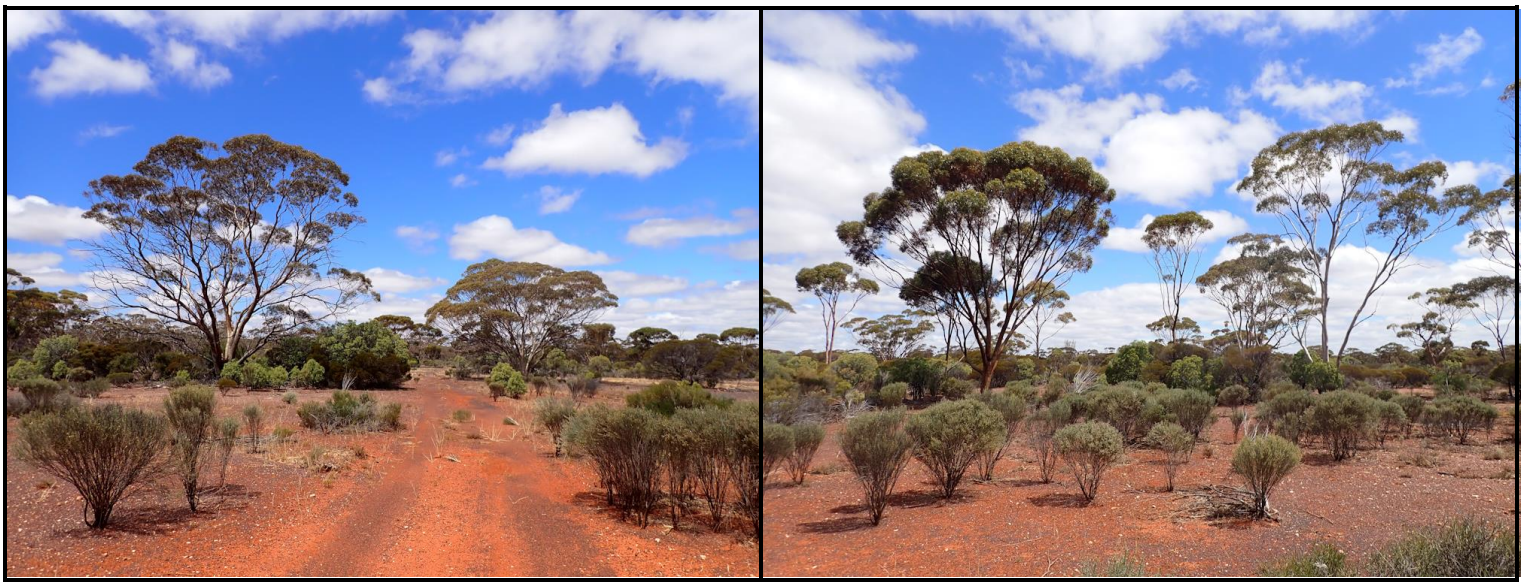
Date: 6/11/2021 Habitat Assessment #: 645 Observer: Ray Turnbull

Zone: 50 Easting: 300609 mE Northing: 6572274 mN

Fire History: >5 years Landform: Road Soil Type: Sandy Clay

Habitat Structure: Highly disturbed or rehabilitated

Habitat Quality: Disturbed Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 646 Observer: Ray Turnbull

Zone: 50 Easting: 300618 mE Northing: 6571923 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 647 Observer: Ray Turnbull

Zone: 50 Easting: 300610 mE Northing: 6571652 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles





TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 648 Observer: Ray Turnbull

Zone: 50 Easting: 300594 mE Northing: 6571432 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 649 Observer: Ray Turnbull

Zone: 50 Easting: 300624 mE Northing: 6571127 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 650 Observer: Ray Turnbull

Zone: 50 Easting: 300594 mE Northing: 6570866 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 651 Observer: Ray Turnbull

Zone: 50 Easting: 300610 mE Northing: 6570607 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

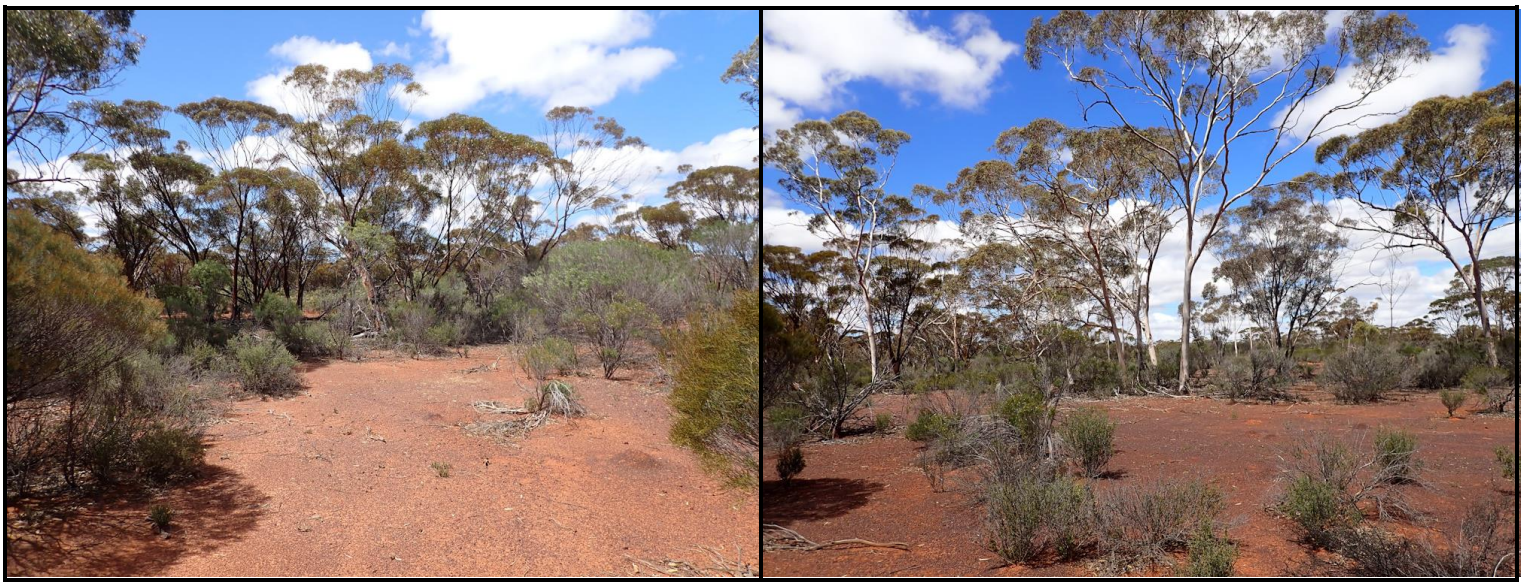
Date: 6/11/2021 Habitat Assessment #: 652 Observer: Ray Turnbull

Zone: 50 Easting: 300604 mE Northing: 6570359 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 653 Observer: Ray Turnbull

Zone: 50 Easting: 300620 mE Northing: 6570060 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 654 Observer: Ray Turnbull

Zone: 50 Easting: 300612 mE Northing: 6569808 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 655 Observer: Ray Turnbull

Zone: 50 Easting: 300616 mE Northing: 6569539 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 656 Observer: Ray Turnbull

Zone: 50 Easting: 300760 mE Northing: 6569611 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 657 Observer: Ray Turnbull

Zone: 50 Easting: 300785 mE Northing: 6569906 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 658 Observer: Ray Turnbull

Zone: 50 Easting: 300738 mE Northing: 6570081 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 659 Observer: Ray Turnbull

Zone: 50 Easting: 300754 mE Northing: 6570290 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 660 Observer: Ray Turnbull

Zone: 50 Easting: 300772 mE Northing: 6570567 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 661 Observer: Ray Turnbull

Zone: 50 Easting: 300767 mE Northing: 6570894 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 662 Observer: Ray Turnbull

Zone: 50 Easting: 300749 mE Northing: 6571214 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 663 Observer: Ray Turnbull

Zone: 50 Easting: 300768 mE Northing: 6571490 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 664 Observer: Ray Turnbull

Zone: 50 Easting: 300743 mE Northing: 6571810 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 665 Observer: Ray Turnbull

Zone: 50 Easting: 300758 mE Northing: 6572129 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mixed Eucalypt woodland with or without shrubs

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 666 Observer: Ray Turnbull

Zone: 50 Easting: 301056 mE Northing: 6571360 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 667 Observer: Ray Turnbull

Zone: 50 Easting: 301053 mE Northing: 6571079 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 668 Observer: Ray Turnbull

Zone: 50 Easting: 301065 mE Northing: 6570823 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 669 Observer: Ray Turnbull

Zone: 50 Easting: 301067 mE Northing: 6570556 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 670 Observer: Ray Turnbull

Zone: 50 Easting: 301058 mE Northing: 6570309 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 671 Observer: Ray Turnbull

Zone: 50 Easting: 301058 mE Northing: 6570071 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 672 Observer: Ray Turnbull

Zone: 50 Easting: 301053 mE Northing: 6569828 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS

Date: 6/11/2021 Habitat Assessment #: 673 Observer: Ray Turnbull

Zone: 50 Easting: 301089 mE Northing: 6569672 mN

Fire History: >5 years Landform: Plain Soil Type: Sandy Clay

Habitat Structure: Mallee woodland

Habitat Quality: Good Surface: Sandy clay with pebbles



TERRESTRIAL ECOSYSTEMS