T&M Ecologists Pty Ltd

Appendix 4: Native Vegetation Clearance

Kimba Intersection

Data Report

Clearance under the *Native Vegetation Regulations 2017*July 2021

Prepared by Tim Milne, T&M Ecologists



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1. Application information

Application Details

Application Details								
Applicant:	Department for Infrastructure and Transport (Note: This application was drafted by CPB Contractors, Head Contractor and member of the Port Wakefield to Port Augusta Alliance, which were contracted by the Commissioner of Highways for the design of the proposed Kimba Intersection Upgrade and Rest Area project).							
Key contact:	Catherine Gray, Senior Environ Catherine.gray@sa.gov.au	Catherine Gray, Senior Environmental Advisor, DIT. Telephone 08 8402 1874 Email Catherine.gray@sa.gov.au						
Landowner:	The Commissioner of Highwa	The Commissioner of Highways						
Site Address:	Eyre Highway, Kimba Junction. Eyre Highway and Cowell-Kiml	•	0795.9 – 796.2) Section: Intersection of of Kimba town centre.					
Local Government Area:	District Council of Kimba	Hundred:	Solomon					
Title ID:	Road Reserve CT/5833/145 CT/5670/486 CT/5428/912	Parcel ID	Road Reserve H501100 S236 H501100 S125 D38941 A101					

Summary of proposed clearance

Purpose of clearance	Clearance required for removal of decommissioned level crossing (intersection upgrade) and construction of heavy vehicle rest area, Kimba.
Native Vegetation Regulation	Regulation 12(32) – Works on behalf of Commissioner of Highways
Description of the vegetation under application	The vegetation in the impact area comprises a combination of planted amenity trees with no native understorey, sections of remnant mallee with understorey generally in moderate to good condition, and areas of revegetation with a mix of indigenous and non-indigenous native species with scattered remnant mallees, principally <i>Eucalyptus brachycalyx</i> . These areas of mixed revegetation generally support some level of remnant native understorey, with <i>Atriplex stipitata</i> , <i>Maireana brevifolia</i> and <i>Enchylaena tomentosa</i> the most abundant species. The areas considered to be remnant native vegetation as per the <i>Native Vegetation Act 1991</i> are shown in the Figure below.
Total proposed clearance - area (ha) and number of trees	1.3523 hectares
Level of clearance	Level 3, escalating to Level 4 due to SAV with Principle 1(b)
Overlay (Planning and Design Code)	Native vegetation Act applies

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Mitigation hierarchy

a) Avoidance – outline measures taken to avoid clearance of native vegetation

Multiple concept design options were considered for upgrade of Eyre Highway through Kimba. Impact on native vegetation was a key value criteria in the assessment of these options, particularly the impact on remnant *Eucalyptus brachycalyx*. Multiple concept design options had considerably more native vegetation removal than the preferred option. Accordingly, along with other factors, those other options were not progressed.

Within detailed design activities for the preferred option, impact on native vegetation was further reduced by:

- a) Reducing the project extents on each approach (i.e. tying in earlier) than the documented within the preferred concept design
- b) Steepening batters on the Eyre Highway western approach from 6:1 to 5:1, whilst remaining safe for car and heavy vehicle movements
- c) Drainage infrastructure positioned to minimise removal of vegetation. This includes realigning swales to avoid trees and match batter lines where possible to retain within the road footprint.
- d) Adjusting the eastern alignment to the south to negate vegetation impacts on the northern side.
- b) Minimization if clearance cannot be avoided, outline measures taken to minimize the extent, duration and intensity of impacts of the clearance on biodiversity to the fullest possible extent (whether the impact is direct, indirect or cumulative).

Vegetation removal will be confirmed in the field; in some cases pruning only may be necessary.

Where clearance cannot be avoided all reasonable measures will be taken to minimise further impacts to native vegetation during construction activities. Such measures include: delineating native vegetation to be retained with exclusion zone fencing, use of non-destructive excavation techniques where practical, education and training of site staff regarding native vegetation protection, minimisation and strict use of designated access points/routes etc, engagement of suitably qualified consultants (ecologist, arborists, fauna spotter-catchers etc), stabilisation of batters for the prevention of erosion, ongoing weed management to avoid the introduction and spread of weed species, effective dust mitigation by ongoing dust suppression and revegetation of disturbed areas. Retention and relocation of suitable hollows removed from trees is also preferred.

c) Rehabilitation or restoration – outline measures taken to rehabilitate ecosystems that have been degraded, and to restore ecosystems that have been degraded, or destroyed by the impact of clearance that cannot be avoided or further minimized, such as allowing for the reestablishment of the vegetation.

The adjoining areas of roadside native vegetation impacted during construction activities and the batters will likely be rehabilitated via topsoiling and (subject to climatic conditions) hydroseed treatments. The final details of the hydroseed treatment methodology are still in development, but the intent is as follows:

a) place 100mm layer of site won topsoil;

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	 b) hydroseed with native hydroseed mix similar to the vegetation species composition found on site. Final species mixes will be developed in consultation with hydroseeding contractors and local seed suppliers. 		
	a) Offset – any adverse impact on native vegetation that cannot be avoided or further minimized should be offset by the achievement of a significant environmental benefit that outweighs that impact.		
	Significant Environmental Benefit will be achieved by payment into the Native Vegetation Fund.		
SEB Offset proposal	Payment into the Native Vegetation Fund of \$19,959.10 (inc. administration fee)		

2. Purpose of clearance

2.1 Description

The purpose of the proposed clearance is for the upgrade of the intersection of the Eyre Highway and the Cowell-Kimba Road in the township of Kimba.

The Eyre Highway (the Highway) is the primary road link between South Australia and Western Australia, supporting a high proportion of interstate and intrastate heavy freight vehicles. At Kimba, the Highway is discontinuous with vehicles required to travel through closely staggered intersections to remain on the Highway. Insufficient road widths make these turning movements difficult and unsafe for heavy vehicles. Accordingly, the Department for Infrastructure and Transport (The Department) has identified the need to realign the Eyre Highway through Kimba to allow for uninterrupted, continuous through movements on the Highway. The existing level crossing will be removed as the railway line has been decommissioned. This upgrade will improve safety and increase freight productivity.

In addition, there currently is no formal eastbound rest area for heavy vehicles in Kimba. The Highway has a high proportion of fatigue regulated heavy vehicles, with The Department needing to support their compliance with National Heavy Vehicle Fatigue Laws through the provision of regular, suitable rest areas. Accordingly, The Department has identified that the intersection upgrade is to include the provision of an eastbound rest area. The Plans detailing the proposed works are included as Appendix 7.1.

2.2 General location map

The general location of the site is shown in Figure 1.

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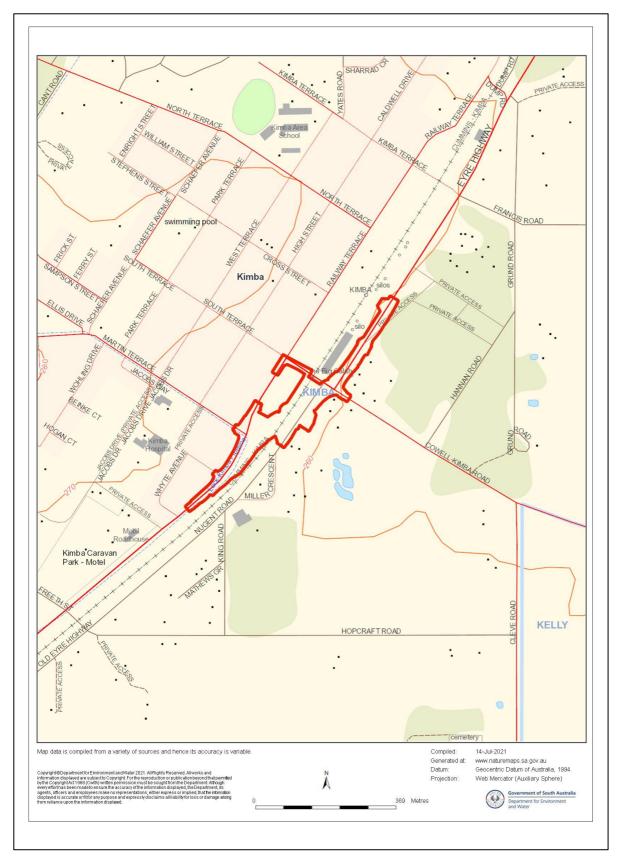


Figure 1: Location map. The proposed location of the intersection upgrade is outlined in red.



Figure 2: Aerial photograph of the broader landscape.

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2.3 Details of the proposal

The Kimba Intersection Upgrade and Rest Area project comprises the following works:

- Realignment of Eyre Highway through the proposed decommissioned railway corridor, tying into the existing
 western side of the Cowell-Kimba road (on the eastern approach) and the eastern side of Whyte Avenue (on
 the western approach).
- Martin Terrace will be extended slightly to intersect with the new Highway.
- Cowell-Kimba Road and Nugent Road will be adjusted to match into the realigned Eyre Highway at Tintersections. Channelised right turns are provided for right in movements to Martin Terrace, Nugent Road and Cowell-Kimba Road
- A new eastbound heavy vehicle rest area will be located parallel to the realigned highway within the railway reserve with two parallel parks on each site of the access road.

Design drawings are attached in Appendix 7.1.

2.4 Approvals required or obtained

Native Vegetation Act 1991

Consent to clear native vegetation under the *Native Vegetation Act 1991* is subject to this application and data report.

Native Vegetation Regulation

Regulation 12(32) – Works on behalf of Commissioner of Highways.

Development Application information (if applicable)

No Development Approval is required for the project.

3. Method

3.1 Flora assessment

Site inspection was undertaken from 15th to 17th February 2021. Data was collected using the Native Vegetation Council's Bushland Assessment methodology (June 2020). See Section 4 for details.

3.1 Fauna assessment

Database searches (Biological Database of South Australia, including Birdlife Australia data¹, and the Protected Matters Search Tool²) for State and Nationally threatened fauna species which may use the vegetation under application were undertaken, using a 5km radius from the centroid of the trees proposed for clearance.

Appendix 7.2 provides the full list of fauna species within a 5km radius and a likelihood assessment that any fauna species of conservation significance would utilize the vegetation under application is provided in Table 1 (Section 4). In addition, opportune field survey was undertaken whilst on site, with species observed noted in Appendix 7.2.

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¹ This data has been sourced from the South Australian Department for Environment and Water Biological Database of SA. Recordset number DEWNRBDBSA201110-2.

² Environment Protection & Biodiversity Conservation Act 1999

4. Assessment Outcomes

4.1 Vegetation Assessment

General description of the vegetation, the site and matters of significance

The site lies in the Kimba Environmental Biogeographic (IBRA) Association in the Eyre Hills IBRA subregion of the Eyre Yorke Block IBRA region. There is 16% native vegetation remaining in this IBRA Association and 29% remaining in this IBRA subregion, with 31% of this remnant vegetation in the IBRA Association being protected. The centroid of the site shows a 7% vegetation cover within 5km³, indicating a relatively cleared local landscape, as also demonstrated by Figure 2, with some patches of remnant mallee and roadside vegetation occurring within a predominantly cleared landscape.

The site lies in the Buckleboo Land System, which is described as "very gently undulating plains and rises formed on Tertiary clays (Blanchetown Clay equivalent), capped by highly calcareous windblown silty sands (Woorinen Formation). There are minor deposits of Moornaba Sand as low to moderate linear sandhills, and scattered granitic outcrops protruding through the clay substrate.". Soils are identified as "loam over poorly structured red clay". The site is generally gently undulating, with some minor drainage lines. The southern section of the site is bisected by the Cummins to Kimba railway line (not currently in operation).

The vegetation in the impact area comprises a combination of planted amenity trees with no native understorey, sections of remnant mallee with understorey generally in moderate condition, and areas of revegetation with a mix of indigenous and non-indigenous native species with scattered remnant mallees, principally *Eucalyptus brachycalyx*. These areas of mixed revegetation generally contained some level of remnant native understorey, with *Atriplex stipitata*, *Maireana brevifolia* and *Enchylaena tomentosa* the most abundant species. The areas considered to be remnant native vegetation as per the *Native Vegetation Act 1991* are discussed in Section 4.1.1 below.

No plant species of state or national conservation significance were observed during field survey, and there are no Biological Database of South Australia records for any plant species of conservation significance in the potential impact area.

4.1.1 Details of the vegetation associates to be impacted

Figure 3 shows the remnant vegetation communities which are present within the impact area. These are discussed below.

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³ Based on a Naturemaps search www.naturemaps.sa.gov.au 1/3/21



Figure 3: Areas of remnant vegetation in the impact area.

Vegetation **Association**

1. Eucalyptus spp. revegetation woodland with scattered emergent remnant Eucalyptus brachycalyx and *Pinus halepensis



Indicative photograph of this community, taken facing SW at 632441, 6331977 (WGS 84, Zone 53S).



Indicative photograph of this community, taken facing SW at 632727, 6332268 (WGS 84, Zone 53S).

General description	This community was present principally in southern sections of the assessment area, although there was one small patch at the northern end. The overstorey was generally a mix of planted indigenous and non-indigenous native Eucalypts, but with some <i>Melaleuca</i> , <i>Callitris</i> and <i>Acacia</i> species also present. There were also scattered old remnant <i>Eucalyptus brachycalyx</i> present, some of which contained moderate to large hollows. There were also scattered emergent * <i>Pinus halepensis</i> (a Declared species), along with seedlings of the same species. The understorey was quite similar to the other sections of mallee, with the low shrubs <i>Atriplex stipitata</i> , <i>Maireana brevifolia</i> and <i>Enchylaena tomentosa</i> generally forming cumulative cover of 5-20%.						
Threatened species or community	May provide habitat for the following State Rare fauna species: • White-winged Chough (Corcorax melanoramphos) • Purple-gaped Honeyeater (Lichenostomus cratitius occidentalis) • Gilbert's Whistler (Pachycephala inornata) No plant species of conservation significance observed, and not considered to be a threatened ecological community.						
Landscape context score	1.1	Vegetation Condition Score	34.41	Conservation significance score	1.04		
Unit biodiversity Score	39.36	Area (ha)	1.0834	Total biodiversity Score	42.65		

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Vegetation Association

2. Eucalyptus brachycalyx mallee



Indicative photograph of this community, taken facing SW at 632389, 6331956 (WGS 84, Zone 53S).

General description

These sections of remnant mallee were found in central sections of the assessment area (Figure 4). The mallee was identified as *Eucalyptus brachycalyx*. Trees were generally in good condition, and there were old trees with moderate to large hollows present. There was a prominent medium to large shrub layer, which includes *Senna artemisioides ssp. X coriacea*, *Geijera linearifolia*, *Exocarpos aphyllus*, *Acacia oswaldii* and *Pittosporum angustifolium*. The dominant understorey species were the low shrubs *Atriplex stipitata*, *Maireana brevifolia* and *Enchylaena tomentosa*, There were scattered **Pinus halepensis* seedlings in this area, with a stand of mature specimens of this Declared species adjacent.

Threatened species or community

May provide habitat for the following State Rare fauna species:

- White-winged Chough (Corcorax melanoramphos)
- Purple-gaped Honeyeater (*Lichenostomus cratitius occidentalis*)
- Gilbert's Whistler (Pachycephala inornata)

No plant species of conservation significance observed, and not considered to be a threatened ecological community.

Landscape context score	1.1	Vegetation Condition	53.02	Conservation significance	1.04
		Score		score	
Unit biodiversity Score	60.65	Area (ha)	0.2689	Total biodiversity Score	16.31

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Threatened Species assessment 4.2

Table 1 provides the results of database searches for threatened fauna undertaken within a 5km radius of the tree under application and includes the likelihood of any of these species utilizing the remnant vegetation for habitat.

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Table 1: Fauna species of conservation significance list (within 5km radius) – see Appendix 7.2 for a full list.

Source: 1 = Biological Database of South Australia; 2 = EPBC Act Protected Matters Search Tool (PMST),, 3 = Birdlife Australia data Conservation status codes: CR = Critically Endangered; EN/E = Endangered; VU/V = Vulnerable; RA/R - Rare

Class	Species name	Common name	Conse	rvation	Source	No. of records	Date of last record	Likelihood	Rationale
			EPBC	NPW					
AVES	Calidris ferruginea	Curlew Sandpiper	CR	Е	2	NA	NA	Unlikely	No suitable habitat or records. In Australia, Curlew Sandpipers mainly occur on intertidal mudflats in sheltered coastal areas, such as estuaries, bays, inlets and lagoons, and also around non-tidal swamps, lakes and lagoons near the coast, and ponds in saltworks and sewage farms. They are also recorded inland, though less often, including around ephemeral and permanent lakes, dams, waterholes and bore drains, usually with bare edges of mud or sand. They occur in both fresh and brackish waters. Occasionally they are recorded around floodwaters. ⁴ Migratory species, breeding in Northern Hemisphere, and flying to the Southern Hemisphere in the southern spring and summer.
AVES	Falco hypoleucos	Grey Falcon	VU	R	2	NA	NA	Unlikely	No suitable habitat or records. Usually restricted to shrubland, grassland and wooded watercourses of arid and semi-arid regions, although it is occasionally found in open woodlands near the coast. Also occurs near wetlands where surface water attracts prey ⁵ .
AVES	Grantiella picta	Painted Honeyeater	VU	R	2	NA	NA	Unlikely	No suitable habitat or records. Found in dry open forests and woodlands, and is strongly associated with mistletoe. It may also be found along rivers, on plains with scattered trees and on farmland with remnant vegetation. It has been seen in urban parks and gardens where large eucalypts are available ⁶ .
AVES	Leipoa ocellata	Malleefowl	VU	V	1, 2, 3			Unlikely	Mounds would have been noted if present in the site. Habitat limited and in close proximity to urban area. The Malleefowl is found principally in the semiarid to arid zone in shrublands and low woodlands dominated by mallee and associated habitats such as Broombush <i>Melaleuca uncinata</i> and Scrub Pine <i>Callitris verrucosa</i> . Malleefowl also occur in Red Ironbark <i>E. sideroxylon</i> woodland at the eastern limit of their distribution, and in Brown Stringybark <i>E. baxteri/E. aranacea</i> woodland in the south of Victoria and South Australia. ⁷ Only 1 record within 5km which is 1.6km south of Kimba and is from 1900.
AVES	Pedionomus torquatus	Plains- wanderer	CR	E	2	NA	NA	Unlikely	No suitable habitat or records. Plains-wanderers inhabit sparse grasslands with c.50% bare ground, with most vegetation less than 5 cm in height and some widely spaced plants up to 30 cm high. The species may occasionally use lower-quality habitat including cereal stubble, but cannot persist in an

⁴ Department of the Environment (2015). Conservation Advice *Calidris ferruginea* curlew sandpiper. Canberra: Department of the Environment.

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⁵ https://www.environment.nsw.gov.au/threatenedSpeciesApp/profile.aspx?id=10330 accessed 10/10/2018

⁶https://birdlife.org.au/bird-profile/painted-honeyeater

⁷ Benshemesh, J. (2007). National Recovery Plan for Malleefowl. Department for Environment and Heritage, South Australia.

Class	Species name	Common	Conse	rvation	Source	No. of	Date of	Likelihood	Rationale
		name	status			records	last record		
			EPBC	NPW					
									agricultural landscape. ⁸ No existing records occur within 5km of the project area.
AVES	Rostratula australis	Australian Painted Snipe	EN	E	2	NA	NA	Unlikely	No suitable habitat or records. Inhabits many different types of shallow, brackish or freshwater terrestrial wetlands, especially temporary ones which have muddy margins and small, low-lying islands. Suitable wetlands usually support a mosaic of low, patchy vegetation, as well as lignum and canegrass.
AVES	Acanthiza iredalei iredalei	Slender-billed Thornbill (western)		R	3	2	2/3/2017	Unlikely	Habitats considered unsuitable. Their preferred habitat includes shrublands, sometimes near mangroves, salt lakes, or salt flats. They usually choose chenopod shrublands dominated by Samphire (<i>Sarcocornia spp.</i>), Bluebush (<i>Maireana spp.</i>) or Saltbush (<i>Atriplex spp.</i>). Sometimes they have been seen in low heath on sand plains as well.
AVES	Amytornis whitei aenigma	Rufous Grasswren		R	1	3	21/11/1976	Unlikely	The subspecies is known only from the mallee-vegetated dune fields of the southern Yellabinna, western Eyre Peninsula. Its habitat is open scrub of mallee species, including <i>Eucalyptus yumbarrana</i> over mid and understorey shrubs and tussock grass <i>Triodia scariosa</i> . Other records of grasswrens, including specimens which resemble and are predicted to be included in this subspecies are from the mallee of the eastern Eyre Peninsula, in a similar landform and rainfall regime ⁹ .
AVES	Ardeotis australis	Australian Bustard		V	1	1	15/5/1999	Unlikely	Unlikely – habitats not considered favourable. Favoured habitat is open grasslands, perhaps with some trees, spinifex plains and low shrublands. This bustard will enter denser areas of vegetation after fire, and is observed on artificial cleared areas such as golf courses and farmland ¹⁰ .
AVES	Biziura lobata menziesi	Musk Duck		R	1	1	24/9/2018	Unlikely	Unlikely – needs wetland areas. Musk Ducks favour deep water where they dive for crustaceans, aquatic insects, fish, and amphibians, together with a small quantity of vegetation ¹¹ . One record from 2018 near the rubbish dump, sewage ponds on northern outskirts of Kimba.
AVES	Cinclosoma castanotum	Chestnut- backed Quailthrush		R	1	2	19/9/1925	Unlikely	Historical records only – unlikely in these small patches in close proximity to town. Inhabits the mallee and sclerophyll woodlands of the semi-arid parts of southern Australia. Everywhere the bird occurs on soils that are sandy, feeding on the ground often among spinifex ¹² .

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⁸ Department of the Environment (2015). Conservation Advice *Pedionomus torquatus* plains-wanderer. Canberra: Department of the Environment.

⁹ Black, A eta al 2020. Two new but threatened subspecies of Rufous Grasswren Amytornis whitei (Maluridae), Bulletin of the British Ornithologists' Club, 140(2):151-163 (2020).

¹⁰ https://en.wikipedia.org/wiki/Australian_bustard

¹¹ https://birdssa.asn.au/birddirectory/musk-duck/ accessed 10/10/2018.

¹² Readers Digest Complete Book of Australian Birds, 2nd Edition 1986.

Class			rvation	Source	No. of	Date of	Likelihood	Rationale	
		name	status EPBC	NPW		records	last record		
AVES	Corcorax melanorhamphos	White-winged Chough	2.50	R	1, 3	7	22/9/2018	Likely	White-winged Choughs are found in open forests and woodlands. They tend to prefer the wetter areas, with lots of leaf-litter, for feeding, and available mud for nest building ¹³ . Records occur on the outskirts of Kimba in mallee patches.
AVES	Falco subniger	Black Falcon		R	1	1	13/12/1988	Unlikely	Only historical record and area unlikely to form significant habitat for this species. The Black Falcon is sparsely spread in the inland and across northern, eastern, southern and central Australia. It is found along tree-lined watercourses and in isolated woodlands, mainly in arid and semi-arid areas. ¹⁴
AVES	Hylacola cauta	Shy Heathwren		R	1	5	17/7/1963	Unlikely	Historical records and unlikely to occur in the relatively open habitats of the areas assessed. This species inhabits mostly mallee woodland that has relatively dense shrub and heath understorey.
AVES	Lichenostomus cratitius occidentalis	Purple-gaped Honeyeater		R	1, 3	2	24/9/2015	Possible	May possibly feed in mallee eucalypts when in flower. Species occurs in mallee eucalypt associations, preferring mallee heathland, but also often in mallee woodland ¹⁵ .
AVES	Lophochroa leadbeateri	Major Mitchell's Cockatoo		R	1	1	1/1/1900	Unlikely	No recent records and habitat not considered suitable. Require extensive woodlands, particularly favouring conifers (<i>Callitris</i> spp.), sheoak (<i>Allocasuarina</i> spp.) and eucalypts. Unlike other cockatoos, Major Mitchell pairs will not nest close to one another, so they cannot tolerate fragmented, partly cleared habitats, and their range is contracting ¹⁶ .
AVES	Pachycephala inornata	Gilbert's Whistler		R	1, 3	5	25/11/2010	Possible	This species may possibly occur in the areas of mallee and revegetation. The species usually inhabits semi-arid mallee or box–ironbark eucalypt, acacia, cypress-pine or Belah shrublands and woodlands (or mixed assemblages of these), usually with a dense, continuous or patchy understorey of shrubs such as Acacias, Eremophila, Dodonaea or Senna; they inhabit these shrubs in the understorey. They also inhabit thickets of paperbarks, including Broombush, or mixed patches of mallee–Broombush ¹⁷ .
Reptilia	Echopsis curta	Bardick		R	1	1	1/1/1950	Unlikely	Considered unlikely in close proximity to urban areas, and lack of recent records. Usually found under logs or other debris on sandy or loamy soils ¹⁸ .

Criteria for the likelihood of occurrence of species within the Study area.

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¹³ Birdlife Australia Bird Profiles (2018). http://www.birdlife.org.au/bird-profile/white-winged-chough accessed 10/10/2018.

¹⁴ Birdlife Australia Bird Profiles (2020). http://www.birdlife.org.au/bird-profile/black-falcon accessed 25/8/2020

¹⁵ https://www.hbw.com/species/purple-gaped-honeyeater-lichenostomus-cratitius accessed 10/10/2018/

¹⁶ https://en.wikipedia.org/wiki/Major_Mitchell%27s_cockatoo

¹⁷ https://www.birdlife.org.au/bird-profile/gilberts-whistler

¹⁸ Cogger, H.G. 2014. *Reptiles and Amphibians of Australia*, CSIRO Publishing, Victoria, 7th Edition.

Likelihood	Criteria
Highly Likely/Known	Recorded in the last 10 years, the species does not have highly specific niche requirements, the habitat is present and falls within the known range of the species distribution or;
	The species was recorded as part of field surveys.
Likely	Recorded within the previous 20 years, the area falls within the known distribution of the species and the area provides habitat or feeding resources for the species.
Possible	Recorded within the previous 20 years, the area falls inside the known distribution of the species, but the area provide limited habitat or feeding resources for the species.
	Recorded within 20 -40 years, survey effort is considered adequate, habitat and feeding resources present, and species of similar habitat needs have been recorded in the area.
Unlikely	Recorded within the previous 20 years, but the area provide no habitat or feeding resources for the species, including perching, roosting or nesting opportunities, corridor for movement or shelter.
	Recorded within 20 -40 years; however, suitable habitat does not occur, and species of similar habitat requirements have not been recorded in the area.
	No records despite adequate survey effort.

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4.3 Cumulative impact

When exercising a power or making a decision under Division 5 of the Native Vegetation Regulations 2017, the NVC must consider the potential cumulative impact, both direct and indirect, that is reasonably likely to result from a proposed clearance activity.

There are no cumulative impacts outside the clearances detailed in Section 4.1. No root disturbance of any other large trees will occur.

4.4 Address the Mitigation Hierarchy

When exercising a power or making a decision under Division 5 of the Native Vegetation Regulations 2017, the NVC must have regard to the mitigation hierarchy. The NVC will also consider, with the aim to minimize, impacts on biological diversity, soil, water and other natural resources, threatened species or ecological communities under the EPBC Act or listed species under the NP&W Act.

a) Avoidance – outline measures taken to avoid clearance of native vegetation

Multiple concept design options were considered for upgrade of Eyre Highway through Kimba. Impact on native vegetation was a key value criteria in the assessment of these options. Other concept design options had considerably more native vegetation removal than the preferred option. Accordingly, along with other factors, these were not progressed.

Within detailed design activities of the preferred option, impact on native vegetation was reduced by:

- a) Reducing the project extents on each approach (i.e. tying in earlier) than the documented within the preferred concept design
- b) Steepening batters on the Eyre Highway western approach from 6:1 to 5:1, whilst remaining safe for car and heavy vehicle movements
- c) Drainage infrastructure positioned to minimise removal of vegetation. This includes realigning swales to avoid trees and match batter lines where possible to retain within the road footprint.
- d) Adjusting the eastern alignment to the south to negate vegetation impacts on the northern side.

b) Minimization – if clearance cannot be avoided, outline measures taken to minimize the extent, duration and intensity of impacts of the clearance on biodiversity to the fullest possible extent (whether the impact is direct, indirect or cumulative).

Vegetation removal will be confirmed in the field; in some cases pruning only may be necessary.

Where clearance cannot be avoided all reasonable measures will be taken to minimise further impacts to native vegetation during construction activities. Such measures include: delineating native vegetation to be retained with exclusion zone fencing, use of non-destructive excavation techniques where practical, education and training of site staff regarding native vegetation protection, minimisation and strict use of designated access points/routes etc, engagement of suitably qualified consultants (ecologist, arborists, fauna spotter-catchers etc), stabilisation of batters for the prevention of erosion, ongoing weed management to avoid the introduction and spread of weed species, effective dust mitigation by ongoing dust suppression and revegetation of disturbed areas. Retention and relocation of suitable hollows removed from trees is also preferred.

c) Rehabilitation or restoration – outline measures taken to rehabilitate ecosystems that have been degraded, and to restore ecosystems that have been degraded, or destroyed by the impact of clearance that cannot be avoided or further minimized, such as allowing for the re-establishment of the vegetation.

The adjoining areas of roadside native vegetation impacted during construction activities and the batters will be rehabilitated via topsoiling and (subject to climatic conditions) hydroseed treatments. The final details of the hydroseed treatment methodology are still in development, but the intent is as follows:

- place 100mm layer of site won topsoil;
- hydroseed with native hydroseed mix similar to the vegetation species composition found on site. Final species mixes will be developed in consultation with hydroseeding contractors and local seed suppliers.

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d)	Offset – any adverse impact on native vegetation that cannot be avoided or further minimized should be offset by the achievement of a significant environmental benefit that outweighs that impact.
	Significant Environmental Benefit will be achieved by payment into the Native Vegetation Fund.

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4.5 Principles of Clearance (Schedule 1, *Native Vegetation Act* 1991)

The Native Vegetation Council will consider Principles 1(b), 1(c) and 1(d) when assigning a level of Risk under Regulation 16 of the Native Vegetation Regulations. The Native Vegetation Council will consider all the Principles of clearance of the Act as relevant, when considering an application referred under the *Planning, Development and Infrastructure Act 2016*.

Principle of clearance	Relevant information	Assessment against the principles	Moderating factors that may be considered by the NVC
Principle 1b - significance as a habitat for wildlife	Vegetation community 2 has a Unit Biodiversity Score of >50. Both communities scored a threatened fauna score of 1.04.	Seriously at variance At variance	This could be reduced to 'At variance' under the non-essential habitat provision – the area was considered potential habitat for three bird species considered Rare at state level. The clearance envelope is small and is considered to be non-essential habitat for these three bird species. The clearance will have a negligible impact on these species' local populations over the long term (ie next 20 to 50 years).
Principle 1c - plants of a rare, vulnerable or endangered species	No plant species of conservation significance observed in the site.	Not at variance	-
Principle 1d - the vegetation comprises the whole or part of a plant community that is Rare, Vulnerable or endangered:	No plant communities of conservation significance present in assessed areas.	Not at variance	-

4.6 Risk Assessment

Determine the level of risk associated with the application

Total clearance	No. of trees Area (ha)	1.3523
	Total biodiversity Score	58.96
Seriously at va 1(b), 1(c) or 1	ariance with principle (d)	Yes - seriously at variance with Principle 1b.
Risk assessme	nt outcome	Level 4

4.7 NVC Guidelines

Provide any other information that demonstrates that the clearance complies with any relevant NVC guidelines related to the activity.

NA

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5. Clearance summary

Clearance Area Summary table

	•		- OI							_		•		
Clearance summary Table - Agricultural region Bushland assessment														
Bush	land as	sessme	ent											
Block	Site	Native species diversity score	Threatened Ecological community Score	Threatened plant score		UBS	Area (ha)	Total Biodiversity score	Loss factor	Loadings	Reductions	SEB Points required	SEB payment	Admin Fee
	1	21	1	0	0.04	39.364325	1.0834	42.65	1			44.78	\$13,491.33	\$742.02
	2	14	1	0	0.04	60.649875	0.2689	16.31	1			17.12	\$5,159.22	\$283.76
	3							0.00	1			0.00	\$0.00	\$0.00
	4							0.00	1			0.00	\$0.00	\$0.00
	5			<u> </u>		_		0.00	1			0.00	\$0.00	\$0.00
Insert ac	dditional ro	ws into the	table as requir	ed.		Total	1.3523	58.9560611				61.90	\$18,650.55	\$1,025.78
IBRA A	ssociatio	n percen	t vegetation	remnancy (%)	16								
IBRA S	ubregion	percent	vegetation i	remnancy (%	6)	29								
Is the v	vegetatio	n associa	ated with a V	Vetland		No								
Econor	mies of S	cale Fact	or			0.35								
Rainfa	ll (mm)					331								
		Total Bio	odiversity	Total SEB p	oints									
		score		required		SEB Payment		Admin Fee		Tota	ıl Pa	yment		
Applica	ation		58.96		61.90		\$18,650.55	\$1,025	5.78			\$19,676.33		
Risk							<u> </u>	T -/						
_	2, 3 or 4	4					, ,	, -,						
_	2, 3 or 4	4		Seriously at variance	Vegetation Assocation	Trees		At variance	Vege			Trees		
Level	2, 3 or 4				_	Trees		At variance	Vege			Trees		
Principle a - Plant	2, 3 or 4	liversity		variance	Assocation	Trees		At variance	Vege Assoc			Trees		
Principle a - Plant b - Wild	2, 3 or 4	liversity		variance Yes	Assocation 1	Trees		At variance Yes	Vege Assoc			Trees		
Principlo a - Plant b - Wild c - Rare	e t species o	liversity		variance Yes	Assocation 1	Trees		At variance Yes	Vege Assoc			Trees		
Principle a - Plant b - Wild c - Rare	2, 3 or 4 te t species of life habita plant spe plant con	liversity		variance Yes	Assocation 1	Trees		At variance Yes	Vege Assoc			Trees		

NOTE: There is a slight discrepancy between SEB offset dollar values calculated in this spreadsheet and the value calculated in each of the individual Bushland Assessment datasheets (Appendix 7.3). This is due to an inherent error in the formulae within these datasheets provided by the Native Vegetation Council.

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6. Significant Environmental Benefit

A Significant Environmental Benefit (SEB) is required for approval to clear under Division 5 of the *Native Vegetation Regulations 2017*. The NVC must be satisfied that as a result of the loss of vegetation from the clearance that an SEB will result in a positive impact on the environment that is over and above the negative impact of the clearance.

ACHIEVING AN SEB

Indicate how the SEB will be achieved by ticking the appropriate box and providing the associated information:	
☐ Establish a new SEB Area on land owned by the proponent.	
☐ Use SEB Credit that the proponent has established	
☐ Apply to have SEB Credit assigned from another person or body. with this Data Report.	
☐ Apply to have an SEB to be delivered by a Third Party.	
☑ Pay into the Native Vegetation Fund.	

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7. Appendices

Appendix 7.1: Kimba Level Crossing Removal and Rest Area Design Drawings

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Appendix 7.2: Fauna Species List (5km radius of the site), from Biological Database of South Australia Search (including Birdlife Australia data), including records from this survey

01.100	0050050			Conserva	ation status	
CLASS	SPECIES	COMMON NAME	this survey	EPBC	NPWA	Region
AMPHIBIA	Neobatrachus pictus	Burrowing Frog				LC
AVES	Acanthagenys rufogularis	Spiny-cheeked Honeyeater	х			LC
AVES	Acanthiza apicalis	Inland Thornbill				LC
AVES	Acanthiza chrysorrhoa	Yellow-rumped Thornbill				LC
AVES	Acanthiza iredalei	Slender-billed Thornbill		ssp	ssp	
AVES	Accipiter cirrocephalus cirrocephalus	Collared Sparrowhawk				NT
AVES	Accipiter fasciatus fasciatus	Brown Goshawk				NT
AVES	Aegotheles cristatus cristatus	Australian Owlet-nightjar				LC
AVES	Amytornis whitei aenigma	Rufous Grasswren (EP, southern NW)			R	RA
AVES	Anas gracilis gracilis	Grey Teal				
AVES	Anthochaera carunculata woodwardi	Red Wattlebird (MLR, AP, YP, EP, far west, Yellabinna)	Х			
AVES	Anthus australis	Australian Pipit				LC
AVES	Aphelocephala leucopsis leucopsis	Southern Whiteface				NT
AVES	Ardea pacifica	White-necked Heron				NT
AVES	Ardeotis australis	Australian Bustard			V	NT
AVES	Artamus cinereus	Black-faced Woodswallow				NT
AVES	Artamus cyanopterus	Dusky Woodswallow				LC
AVES	Artamus personatus	Masked Woodswallow				LC
AVES	Aythya australis	Hardhead				VU
AVES	Barnardius zonarius	Australian Ringneck				LC
AVES	Biziura lobata menziesi	Musk Duck			R	
AVES	Cacatua sanguinea sanguinea	Little Corella				NT
AVES	Cacomantis pallidus	Pallid Cuckoo				NT
AVES	Calidris acuminata	Sharp-tailed Sandpiper				NT
AVES	Chalcites basalis	Horsfield's Bronze Cuckoo				LC
AVES	Chenonetta jubata	Maned Duck				NT
AVES	Cheramoeca leucosterna	White-backed Swallow				NT
AVES	Cincloramphus cruralis	Brown Songlark				LC
AVES	Cincloramphus mathewsi	Rufous Songlark				NT
AVES	Cinclosoma castanotum (NC)	Chestnut-backed Quailthrush (Chestnut Quailthrush)			ssp	
AVES	Colluricincla harmonica	Grey Shrikethrush				LC
AVES	Columba livia	Feral Pigeon				
AVES	Coracina novaehollandiae	Black-faced Cuckooshrike				LC
AVES	Corcorax melanorhamphos	White-winged Chough			R	NT
AVES	Corvus bennetti	Little Crow				NT

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				Conserva	ation status	
CLASS	SPECIES	COMMON NAME	this survey	ЕРВС	NPWA	Region
AVES	Corvus coronoides	Australian Raven	Х			LC
AVES	Corvus mellori	Little Raven				LC
AVES	Corvus sp.	Crows				
AVES	Cracticus torquatus leucopterus	Grey Butcherbird				LC
AVES	Daphoenositta chrysoptera pileata	Black-capped Sittella				NT
AVES	Dicaeum hirundinaceum hirundinaceum	Mistletoebird				NT
AVES	Dromaius novaehollandiae	Emu		ssp	ssp	LC
AVES	Drymodes brunneopygia	Southern Scrub Robin				LC
AVES	Egretta novaehollandiae	White-faced Heron				LC
AVES	Elanus axillaris	Black-shouldered Kite				RA
AVES	Elseyornis melanops	Black-fronted Dotterel				VU
AVES	Eolophus roseicapilla	Galah	Х			LC
AVES	Eopsaltria griseogularis rosinae	Western Yellow Robin				LC
AVES	Erythrogonys cinctus	Red-kneed Dotterel				NT
AVES	Falco berigora	Brown Falcon				LC
AVES	Falco cenchroides	Nankeen Kestrel				LC
AVES	Falco subniger	Black Falcon			R	EN
AVES	Fulica atra	Eurasian Coot				RA
AVES	Gavicalis virescens	Singing Honeyeater	Х			LC
AVES	Geopelia placida placida	Peaceful Dove	Х			VU
AVES	Grallina cyanoleuca	Magpielark	Х			LC
AVES	Gymnorhina tibicen	Australian Magpie				LC
AVES	Haliastur sphenurus	Whistling Kite				EN
AVES	Himantopus leucocephalus	White-headed Stilt				RA
AVES	Hirundo neoxena neoxena	Welcome Swallow				LC
AVES	Hylacola cauta	Shy Heathwren			ssp	LC
AVES	Lalage tricolor	White-winged Triller				NT
AVES	Leipoa ocellata	Malleefowl		VU	V	VU
AVES	Lichenostomus cratitius	Purple-gaped Honeyeater			ssp	LC
AVES	Lophochroa leadbeateri	Major Mitchell's Cockatoo			R	VU
AVES	Malacorhynchus membranaceus	Pink-eared Duck				NT
AVES	Malurus assimilis assimilis	Purple-backed Fairywren	Х			LC
AVES	Malurus pulcherrimus	Blue-breasted Fairywren				LC
AVES	Malurus splendens	Splendid Fairywren	Х			LC
AVES	Manorina flavigula	Yellow-throated Miner	Х	ssp	ssp	LC
AVES	Melithreptus brevirostris	Brown-headed Honeyeater				LC
AVES	Melopsittacus undulatus	Budgerigar				VU
AVES	Merops ornatus	Rainbow Bee-eater				RA

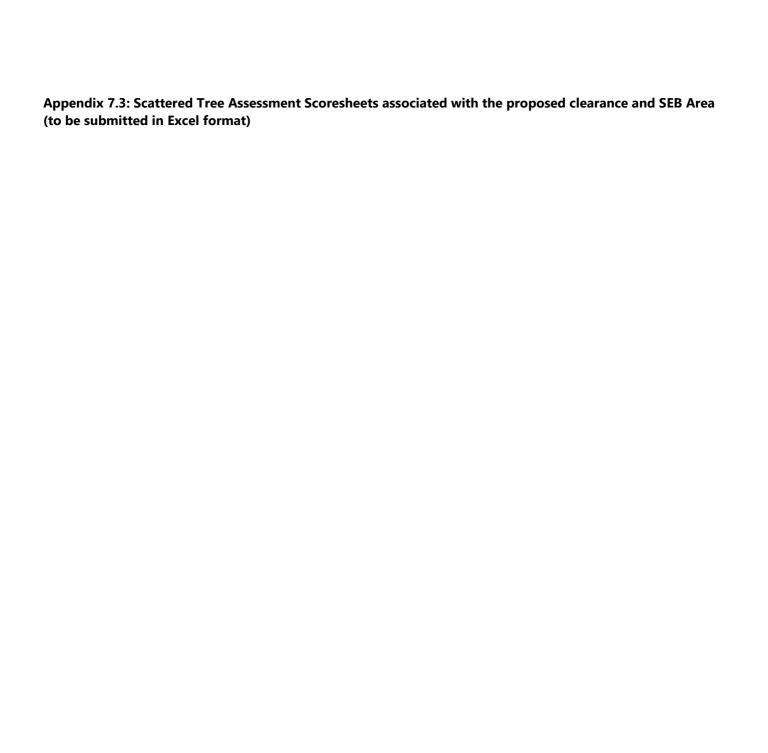
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				Conserva	ation status	
CLASS	SPECIES		this survey	ЕРВС	NPWA	Region
AVES	Microcarbo melanoleucos melanoleucos	Little Pied Cormorant				NT
AVES	Microeca fascinans	Jacky Winter			ssp	NT
AVES	Nesoptilotis leucotis	White-eared Honeyeater				LC
AVES	Ninox boobook	Australian Boobook				LC
AVES	Nymphicus hollandicus	Cockatiel				VU
AVES	Ocyphaps lophotes	Crested Pigeon	Х			LC
AVES	Pachycephala inornata	Gilbert's Whistler			R	RA
AVES	Pachycephala pectoralis	Australian Golden Whistler				LC
AVES	Pachycephala rufiventris rufiventris	Rufous Whistler	х			
AVES	Pardalotus punctatus	Spotted Pardalote				LC
AVES	Pardalotus striatus substriatus	Striated Pardalote	х			LC
AVES	Parvipsitta porphyrocephala	Purple-crowned Lorikeet				NT
AVES	Passer domesticus domesticus	House Sparrow				
AVES	Pelecanus conspicillatus	Australian Pelican				NT
AVES	Petrochelidon ariel	Fairy Martin				NT
AVES	Petrochelidon nigricans	Tree Martin				LC
AVES	Petroica goodenovii	Red-capped Robin				LC
AVES	Phalacrocorax sulcirostris	Little Black Cormorant				NT
AVES	Phaps chalcoptera	Common Bronzewing				LC
AVES	Phylidonyris novaehollandiae	New Holland Honeyeater				LC
AVES	Platalea flavipes	Yellow-billed Spoonbill				NT
AVES	Poliocephalus poliocephalus	Hoary-headed Grebe				NT
AVES	Pomatostomus superciliosus	White-browed Babbler				LC
AVES	Psephotellus varius	Mulga Parrot				LC
AVES	Ptilotula ornata	Yellow-plumed Honeyeater	Х			LC
AVES	Ptilotula penicillata	White-plumed Honeyeater				
AVES	Purnella albifrons	White-fronted Honeyeater				LC
AVES	Recurvirostra novaehollandiae	Red-necked Avocet				VU
AVES	Rhipidura albiscapa	Grey Fantail	Х			LC
AVES	Rhipidura leucophrys leucophrys	Willie Wagtail				LC
AVES	Smicrornis brevirostris	Weebill	Х			LC
AVES	Spilopelia chinensis	Spotted Dove				0
AVES	Strepera versicolor	Grey Currawong			ssp	LC
AVES	Sturnus vulgaris vulgaris	Common Starling				
AVES	Tachybaptus novaehollandiae	Australasian Grebe				VU
AVES	Tribonyx ventralis	Black-tailed Nativehen				LC
AVES	Turdus merula merula	Common Blackbird				
AVES	Vanellus miles	Masked Lapwing	X			LC

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				Conservation status			
CLASS	SPECIES	COMMON NAME	this survey	ЕРВС	NPWA	Region	
AVES	Vanellus tricolor	Banded Lapwing				NT	
AVES	Zosterops lateralis	Silvereye				LC	
MAMMALIA	Cercartetus concinnus	Western Pygmy-possum				LC	
MAMMALIA	Macropus fuliginosus	Western Grey Kangaroo				LC	
MAMMALIA	Notomys mitchellii	Mitchell's Hopping-mouse				LC	
MAMMALIA	Nyctophilus geoffroyi	Lesser Long-eared Bat				LC	
MAMMALIA	Rattus rattus	Black Rat (Ship Rat, Roof Rat)					
MAMMALIA	Vespadelus regulus	Southern Forest Bat				LC	
REPTILIA	Anilios bituberculatus	Rough-nosed Blind Snake				RA	
REPTILIA	Demansia reticulata	Desert Whipsnake				RA	
REPTILIA	Diplodactylus calcicolus	South Coast Stone Gecko					
REPTILIA	Echiopsis curta	Bardick			R	RA	
REPTILIA	Hemiergis initialis	Western Earless Skink				RA	
REPTILIA	Lerista dorsalis	Southern Four-toed Slider				LC	
REPTILIA	Lerista edwardsae	Myall Slider				LC	
REPTILIA	Moloch horridus	Thorny Devil				RA	
REPTILIA	Nephrurus stellatus	Starred Knob-tailed Gecko				LC	
REPTILIA	Pseudonaja affinis	Dugite				RA	
REPTILIA	Simoselaps bertholdi	Desert Banded Snake				RA	
REPTILIA	Tiliqua rugosa	Sleepy Lizard				LC	
REPTILIA	Tiliqua scincoides	Eastern Bluetongue				RA	

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Kimba site 1 EP 8.1 Mallee & Low Woodlands with Open Sclerophyl Chenopod Understorey EGETATION ASSOCIATION DESCRIPTION Eucalyptus spp. revegetation woodland with scattered er 1.0834	01 1 0					
Chenopod Understorey GETATION ASSOCIATION DESCRIPTION Eucalyptus spp. revegetation woodland with scattered er	01 1 0					
EGETATION ASSOCIATION DESCRIPTION Eucalyptus spp. revegetation woodland with scattered er	Shrub &					
21 11 0	Chenopod Understorey					
ZE OF SITE (Ha) 1.0834	Eucalyptus spp. revegetation woodland with scattered emergent rem					
enchmarked attributes Native Plant	Cover					
cores determined by comparing to a Benchmark community) <u>Life Forms</u>	rating					
Trees > 15m						
mber of Native Species (Minus herbaceous annuals for spring Surveys) 21 Trees 5 - 15 m						
tive Plant Species Diversity Score (max 30) from benchmark score						
ighted by a factor of 2 20.0 Mallee > 5m						
Mallee < 5m						
mber of regenerating native species 2 Shrubs > 2m						
generation Score (max 12) from benchmark community weighted by a factor of 1.5 Shrubs 0.5 - 2m	2					
4.5 Shrubs < 0.5	;					
Forbs						
eed species Cover Weed Threat C x I Mat Plants						
op 5 Cover x Invasiveness) (max 6) Rating (max 5) Grasses > 0.2m						
nus halepensis 2 3 6 Grasses < 0.2m						
ondrilla juncea 1 2 2 Sedges > 1m						
arrubium vulgare 1 3 3 Sedges < 1m Izania linearis 1 3 3 Hummock grasses						
zania linearis 1 3 3 Hummock grasses vrichtera annua 1 2 2 Vines, scramblers						
Cover x Threat 16 Mistletoe						
eed Score (max 15) from benchmark community 8						
Grass-tree						
Total	13					
tive Plant Life Forms (max 20) from benchmark score weighted by a factor of 2	14.0					
on-Benchmarked Attributes Is the community naturally treeless?						
on-Benchmarked Attributes cores determined from direct field observations) Is the community naturally treeless? Fallen Timber/Debris (max 5)	3					
	3 2					
cores determined from direct field observations) Fallen Timber/Debris (max 5)						
cores determined from direct field observations) Fallen Timber/Debris (max 5) Hollow-bearing trees Score (max 5)	2					
cores determined from direct field observations) tive:exotic Understorey biomass Score (max 5) 4 Hollow-bearing trees Score (max 5) Mature Tree Score (max 8)	2 2					
cores determined from direct field observations) tive:exotic Understorey biomass Score (max 5) 4 Hollow-bearing trees Score (max 5) Mature Tree Score (max 8) Tree Canopy Cover Score (max 5)	2 2					
cores determined from direct field observations) tive:exotic Understorey biomass Score (max 5) 4 Hollow-bearing trees Score (max 5) Mature Tree Score (max 8) Tree Canopy Cover Score (max 5) egetation Condition Score calculation	2 2					
cores determined from direct field observations) tive:exotic Understorey biomass Score (max 5) 4 Hollow-bearing trees Score (max 5) Mature Tree Score (max 8) Tree Canopy Cover Score (max 5)	2 2					
cores determined from direct field observations) tive:exotic Understorey biomass Score (max 5) 4 Hollow-bearing trees Score (max 5) Mature Tree Score (max 8) Tree Canopy Cover Score (max 5) regetation Condition Score calculation sitive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms allen timber/debris + Hollow-bearing trees	2 2					
Fallen Timber/Debris (max 5) Hollow-bearing trees Score (max 5) Mature Tree Score (max 8) Tree Canopy Cover Score (max 5) Egetation Condition Score calculation Sitive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms allen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24	2 2 1					
cores determined from direct field observations) tive:exotic Understorey biomass Score (max 5) 4 Hollow-bearing trees Score (max 5) Mature Tree Score (max 8) Tree Canopy Cover Score (max 5) regetation Condition Score calculation sitive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms allen timber/debris + Hollow-bearing trees	2 2					
Fallen Timber/Debris (max 5) Hollow-bearing trees Score (max 5) Mature Tree Score (max 8) Tree Canopy Cover Score (max 5) Pegetation Condition Score calculation Sitive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms allen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24 If the community is naturally treeless this score is multiplied by 1.29	2 2 1					
Fallen Timber/Debris (max 5) Hollow-bearing trees Score (max 5) Mature Tree Score (max 8) Tree Canopy Cover Score (max 5) Pegetation Condition Score calculation Stitive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms allen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24 If the community is naturally treeless this score is multiplied by 1.29 Gative Vegetation Attributes Score = (15 - Weeds) + ((10 - Biomass score - Tree Canopy Cover Score)exp2/2) GETATION CONDITION SCORE (Positive veg attributes x ((80 - Negative vegetation attributes) / 80))	2 2 1 1 45.50 19.50					
Fallen Timber/Debris (max 5) Hollow-bearing trees Score (max 5) Mature Tree Score (max 8) Tree Canopy Cover Score (max 5) Pegetation Condition Score calculation Pesitive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms allen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24 If the community is naturally treeless this score is multiplied by 1.29 Get attributes Score = (15 - Weeds) + ((10 - Biomass score - Tree Canopy Cover Score)exp2/2) GETATION CONDITION SCORE (Positive veg attributes x ((80 - Negative vegetation attributes) / 80)) Low Medium High	2 2 1 1 45.50 19.50					
Fallen Timber/Debris (max 5) Hollow-bearing trees Score (max 5) Auture Tree Score (max 8) Tree Canopy Cover Score (max 5) Regetation Condition Score calculation Sitive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms Allen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24 If the community is naturally treeless this score is multiplied by 1.29 gative Vegetation Attributes Score = (15 - Weeds) + ((10 - Biomass score - Tree Canopy Cover Score)exp2/2) GETATION CONDITION SCORE (Positive veg attributes x ((80 - Negative vegetation attributes) / 80)) Low Medium High Native Plant Species Diversity	2 2 1 1 45.50 19.50					
Fallen Timber/Debris (max 5) Hollow-bearing trees Score (max 5) Mature Tree Score (max 8) Tree Canopy Cover Score (max 5) Pegetation Condition Score calculation Pesitive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms allen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24 If the community is naturally treeless this score is multiplied by 1.29 Get attributes Score = (15 - Weeds) + ((10 - Biomass score - Tree Canopy Cover Score)exp2/2) GETATION CONDITION SCORE (Positive veg attributes x ((80 - Negative vegetation attributes) / 80)) Low Medium High	2 2 1 1 45.50 19.50					
Fallen Timber/Debris (max 5) Hollow-bearing trees Score (max 5) Auture Tree Score (max 8) Tree Canopy Cover Score (max 5) Regetation Condition Score calculation Sitive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms Allen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24 If the community is naturally treeless this score is multiplied by 1.29 gative Vegetation Attributes Score = (15 - Weeds) + ((10 - Biomass score - Tree Canopy Cover Score)exp2/2) GETATION CONDITION SCORE (Positive veg attributes x ((80 - Negative vegetation attributes) / 80)) Low Medium High Native Plant Species Diversity	2 2 1 1 45.50 19.50					
Fallen Timber/Debris (max 5) Hollow-bearing trees Score (max 5) Mature Tree Score (max 8) Tree Canopy Cover Score (max 5) Pegetation Condition Score calculation In the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24 If the community is naturally treeless this score is multiplied by 1.29 If the community is naturally treeless this score is multiplied by 1.29 If the community Score (Positive veg attributes x ((80 - Negative vegetation attributes) / 80)) Low Medium High Native Plant Species Diversity Weed Score	2 2 1 1 45.50 19.50					
Fallen Timber/Debris (max 5) tive:exotic Understorey biomass Score (max 5) ### Hollow-bearing trees Score (max 5) ### Mature Tree Score (max 6) ### Mat	2 2 1 1 45.50 19.50					
Fallen Timber/Debris (max 5) tive:exotic Understorey biomass Score (max 5) Auture Tree Score (max 8) Tree Canopy Cover Score (max 5) Regetation Condition Score calculation Sitive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms allen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24 If the community is naturally treeless this score is multiplied by 1.29 gative Vegetation Attributes Score = (15 - Weeds) + ((10 - Biomass score - Tree Canopy Cover Score)exp2/2) GETATION CONDITION SCORE (Positive veg attributes x ((80 - Negative vegetation attributes) / 80)) Low Medium High Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass	2 2 1 1 45.50 19.50					
Fallen Timber/Debris (max 5) tive:exotic Understorey biomass Score (max 5) tive:exotic Understorey biomass Score (max 5) At the Canopy Cover Score (max 8) Tree Canopy Cover Score (max 5) Tree Canopy Cover Score (max 5) Attire Tree Score (max 8) Tree Canopy Cover Score (max 5) Tree Canopy Cover Score (max 5) Attire Plant Life Forms Regeneration Native Plant Species Diversity Weed Score Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Mature Trees	2 2 1 1 45.50 19.50					
Fallen Timber/Debris (max 5) tive:exotic Understorey biomass Score (max 5) Auture Tree Score (max 8) Tree Canopy Cover Score (max 5) Regetation Condition Score calculation Sitive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms allen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24 If the community is naturally treeless this score is multiplied by 1.29 gative Vegetation Attributes Score = (15 - Weeds) + ((10 - Biomass score - Tree Canopy Cover Score)exp2/2) GETATION CONDITION SCORE (Positive veg attributes x ((80 - Negative vegetation attributes) / 80)) Low Medium High Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass	2 2 1 1 45.50 19.50					
Fallen Timber/Debris (max 5) tive:exotic Understorey biomass Score (max 5) tive:exotic Understorey biomass Score (max 5) At the Canopy Cover Score (max 8) Tree Canopy Cover Score (max 5) Tree Canopy Cover Score (max 5) Attire Tree Score (max 8) Tree Canopy Cover Score (max 5) Tree Canopy Cover Score (max 5) Attire Plant Life Forms Regeneration Native Plant Species Diversity Weed Score Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Mature Trees	2 2 1 1 45.50 19.50					
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Conservation Significance S			
s the vegetation association considered a Threate		-	Yes/No
State (Provisional List of Threatened Ecosystems			
State (Provisional List of Threatened Ecosystems	•	,	
State (Provisional List of Threatened Ecosystems		/ (0.3 pts)	
Nationally (EPBC Act) Vulnerable community (0			
Nationally (EPBC Act) Endangered or Critically		•	
Note; all sites will score a minimum Conservation Si	gnificance Score of 1 Thre	atened Community Score	1
Number of Threatened Flora Species recorde	d for the site (within the site)		Number
*If a species has both a State (NP&W Act) and I		nly recorded for its National	
State Rare species recorded (1 pt each)	tational (E. Bortot) rating, it of	The recorded for the realistical	T n
State Vulnerable species recorded (2.5 pt each)			0
State Endangered recorded (5 pts each)			0
Nationally Vulnerable species recorded (10 pts	each)		0
Nationally Endangered or Critically endangere		1)	0
	0.08 pts; 5 - <10 = 0.12 pts; 10 - <2		0
		Threatened Flora Score	
Potential habitat for Threatened Fauna Spec			Number
*If a species has both a State (NP&W Act) and I State Rare species observed or locally recorded		niy recorded for its National i	rauriy. વ
State Vulnerable species observed or locally recorded.			0
State Endangered species observed or locally re			0
Nationally Vulnerable species observed or locall			0
Nationally Endangered or Critically endangere			0
0 = 0 pts; $<2 = 0.02 pts$; $2 - <5 =$: 0.04 pts; 5 - <10 = 0.06 pts; 10 - <	20 = 0.08pts; $20 or > = 0.1 pts$	3
		Threatened Fauna Score	
CONSEDIVATION SIGNIFICANCE SCORE			0.04
CONSERVATION SIGNIFICANCE SCORE			
CONSERVATION SIGNIFICANCE SCORE	Vo gototico Co	Threatened Fauna Score	1.04
CONSERVATION SIGNIFICANCE SCORE Total Scores for the Site		Threatened Fauna Score	1.04
Total Scores for the Site	Score Conservation	Threatened Fauna Score ondition x Landscape Cor Significance =	0.04 1.04 ntext x
Total Scores for the Site	Score Conservation UNIT BIODIV	Threatened Fauna Score ondition x Landscape Cor Significance = /ERSITY SCORE	1.04
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Cor Significance = /ERSITY SCORE ersity Score	0.04 1.04 ntext x 39.36
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE	Score Conservation UNIT BIODIV Total Biodive	Threatened Fauna Score ondition x Landscape Cor Significance = /ERSITY SCORE	0.04 1.04 ntext x
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	Threatened Fauna Score ondition x Landscape Cor Significance = /ERSITY SCORE ersity Score y Score x hectares)	0.04 1.04 ntext x 39.36 42.65
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Cor Significance = /ERSITY SCORE ersity Score	0.04 1.04 ntext x 39.36 42.65
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = /ERSITY SCORE ersity Score y Score x hectares) Direction of the P	0.04 1.04 ntext x 39.36 42.65
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = /ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference	0.04 1.04 ntext x 39.36 42.65
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = /ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference	0.04 1.04 1.04 1.04 1.04 1.04 1.05 1.04
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = //ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits)	0.04 1.04 1.04 1.04 42.65 hoto WGS84 53 632441
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = //ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits)	0.04 1.04 1.04 1.04 42.65 hoto WGS84 53 632441
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = //ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits)	0.04 1.04 1.04 1.04 42.65 hoto WGS84 53 632441
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = //ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits)	0.04 1.04 1.04 1.04 42.65 hoto WGS84 53 632441
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = //ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits)	0.04 1.04 1.04 1.04 42.65 hoto WGS84 53 632441
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = //ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits)	0.04 1.04 1.04 1.04 1.04 42.65 42.65 40.65 42.65
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = //ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits)	0.04 1.04 1.04 1.04 1.04 42.65 42.65 40.65 42.65
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = //ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits)	0.04 1.04 1.04 1.04 1.04 42.65 42.65 40.65 42.65
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = //ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits)	0.04 1.04 1.04 1.04 1.04 42.65 42.65 40.65 42.65
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE Photo Point and Vegetation Survey Location	Score Conservation UNIT BIODIV Total Biodive	ondition x Landscape Corsignificance = //ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits)	0.04 1.04 1.04 1.04 1.04 42.65 42.65 40.65 42.65
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE Photo Point and Vegetation Survey Location What is the purpose of Assessment?	Score 1.10 34.41 1.04 Conservation UNIT BIODIV Total Biodive (Biodiversit) arance SEB Area	ondition x Landscape Corsignificance = /ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits) Description	0.04 1.04 1.04 1.04 42.65 hoto WGS84 53 632441 6331977
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE Photo Point and Vegetation Survey Location What is the purpose of Assessment? Cle Assessment for Clearance	Score 1.10 34.41 1.04 Conservation UNIT BIODIV Total Biodive (Biodiversit) arance SEB Area Approximate I	Ondition x Landscape Corsignificance = /ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits) Description Other	0.04 1.04
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE Photo Point and Vegetation Survey Location What is the purpose of Assessment? Cle Assessment for Clearance Loss Factor	Score 1.10 34.41 1.04 Conservation UNIT BIODIV Total Biodive (Biodiversit) Approximate I Economies of	Ondition x Landscape Corsignificance = /ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits) Description Other hectares required Scale Factor	0.04 1.04
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE Photo Point and Vegetation Survey Location What is the purpose of Assessment? Cle Assessment for Clearance Loss Factor Loadings for clearance of protected areas	arance SEB Area Approximate Economies of Mean Annual	ondition x Landscape Corsignificance = //ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits) Description Other hectares required Scale Factor rainfall for the site (mm)	1.04 1.04
Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE Photo Point and Vegetation Survey Location What is the purpose of Assessment? Cle Assessment for Clearance Loss Factor	arance SEB Area Approximate Economies of Mean Annual Payment into	Ondition x Landscape Corsignificance = /ERSITY SCORE ersity Score y Score x hectares) Direction of the P Southwest GPS Reference Datum Zone (52, 53 or 54) Easting (6 digits) Northing (7 digits) Description Other hectares required Scale Factor	0.04 1.04

Plant Species Recorded (Native and International	roduced)	Listed	l Spe	cies	Na	tives only	
				Not in		Annual Herbs	Introduced
Species	Common Name	EPBC	SA	quadrat	Regen	Spring survey	Species
Acacia halliana	Hall's Wattle						
Acacia ligulata	Umbrella Bush						
Acacia oswaldii	Umbrella Wattle						
Acacia sclerophylla var. sclerophylla	Hard-leaf Wattle						
Atriplex stipitata	Bitter Saltbush				Yes		
Austrostipa elegantissima	Feather Spear-grass						
Austrostipa sp.	Spear-grass						
Enchylaena tomentosa var. tomentosa	Ruby Saltbush				Yes		
Eucalyptus brachycalyx	Gilja						
Geijera linearifolia	Sheep Bush						
Lomandra effusa	Scented Mat-rush						
Maireana pentatropis	Erect Mallee Bluebush						
Melaleuca lanceolata	Dryland Tea-tree						
Roepera apiculata	Pointed Twinleaf						
Roepera aurantiaca ssp. aurantiaca	Shrubby Twinleaf						
Rytidosperma sp.	Wallaby-grass						
Sclerolaena obliquicuspis	Oblique-spined Bindyi						
Sclerolaena uniflora	Small-spine Bindyi						
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna						
Vittadinia sp.	New Holland Daisy						
Walwhalleya proluta	Rigid Panic						

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egetation Condition Scores					
ITE:	Kimba site	2			
CM COMMUNITY			oodlands v	vith Open Sclerophyll S	3hrub &
	Chenopod Understorey				
EGETATION ASSOCIATION DESCRIPTION	Eucalyptus	s brachycalyx i	mallee		
IZE OF SITE (Ha)	0.2689				
					_
Senchmarked attributes				Native Plant	Cover
Scores determined by comparing to a Benchma	ark commu	nity)		Life Forms	rating
all and Made a Construction (Africa) and a second	.1. (0		Trees > 15m	_
umber of Native Species (Minus herbaceous annu		, ,	14	Trees 5 - 15 m	
ative Plant Species Diversity Score (max 30) from ben	chmark sco	re I		Trees < 5m	
eighted by a factor of 2			16.0	Mallee > 5m	4
			_	Mallee < 5m	2
umber of regenerating native species egeneration Score (max 12) from benchmark commu	nity woighton	Lby a factor of 1	5	Shrubs > 2m	2
egeneration Score (max 12) from benchmark commu	riity weignied	iby a lactor of f		Shrubs 0.5 - 2m	2
			10.5	Shrubs < 0.5 Forbs	1
leed species	Cover V	Veed Threat	CxI	Mat Plants	
op 5 Cover x Invasiveness)	(max 6) F	Rating (max 5)		Grasses > 0.2m	1
inus halepensis	2	3	6	Grasses < 0.2m	1
osa canina	1	3	3	Sedges > 1m	
arrubium vulgare	1	3	3	Sedges < 1m	-
azania linearis irsium vulgare	1	3 2	2	Hummock grasses Vines, scramblers	_
iisiuiii vuigaie	Cover x T		17	Mistletoe	
					_
eed Score (max 15) from benchmark community			8	Ferns	
eed Score (max 15) from benchmark community			8	Ferns Grass-tree	
	re weighted l	by a factor of 2	8	_	
reed Score (max 15) from benchmark community ative Plant Life Forms (max 20) from benchmark sco		Is the com	munity natu	Grass-tree Total urally treeless?	16.0
ative Plant Life Forms (max 20) from benchmark sco Ion-Benchmarked Attributes Scores determined from direct field observation	ns)	Is the com	munity natu	Grass-tree Total rally treeless? s (max 5)	16.0
on-Benchmarked Attributes Scores determined from direct field observation	ns)	Is the com Fallen Tim Hollow-be	munity natu nber/Debri aring tree	Grass-tree Total Irally treeless? s (max 5) s Score (max 5)	16.0 5 3
ative Plant Life Forms (max 20) from benchmark sco	ns)	Is the com Fallen Tim Hollow-be Mature Tre	munity natu nber/Debri aring tree ee Score (Grass-tree Total Irally treeless? s (max 5) s Score (max 5) max 8)	16.0 5 3 8
ative Plant Life Forms (max 20) from benchmark sco On-Benchmarked Attributes Scores determined from direct field observation	ns)	Is the com Fallen Tim Hollow-be Mature Tre	munity natu nber/Debri aring tree ee Score (Grass-tree Total Irally treeless? s (max 5) s Score (max 5)	3
lon-Benchmarked Attributes Scores determined from direct field observation ative:exotic Understorey biomass Score (max 5)	ns)	Is the com Fallen Tim Hollow-be Mature Tre	munity natu nber/Debri aring tree ee Score (Grass-tree Total Irally treeless? s (max 5) s Score (max 5) max 8)	16.0 5 3 8
ative Plant Life Forms (max 20) from benchmark sco Ion-Benchmarked Attributes Scores determined from direct field observation	as) 4	Is the come Fallen Tim Hollow-be Mature Tre Tree Cano	munity natu nber/Debri aring tree ee Score (Grass-tree Total Total arally treeless? s (max 5) s Score (max 5) max 8) Score (max 5)	16.0 5 3 8
ative Plant Life Forms (max 20) from benchmark scolon-Benchmarked Attributes Scores determined from direct field observation ative:exotic Understorey biomass Score (max 5)	as) 4	Is the come Fallen Tim Hollow-be Mature Tre Tree Cano	munity natu nber/Debri aring tree ee Score (Grass-tree Total Total arally treeless? s (max 5) s Score (max 5) max 8) Score (max 5)	16.0 5 3 8
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Ion-Benchmarked Attributes Scores determined from direct field observation ative:exotic Understorey biomass Score (max 5) Gegetation Condition Score calculation ositive Vegetation Attributes Score = Native speciallen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) If the community is naturally treeless this score is multiple second in the s	ies diversity) for regenerations by 1.29	Is the comparison of the comparison of this score	munity natu nber/Debri aring tree ee Score (opy Cover	Grass-tree Total Irally treeless? s (max 5) s Score (max 5) max 8) Score (max 5) Plant Life Forms ed 1.24	16.0 5 3 8 5
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Ion-Benchmarked Attributes Scores determined from direct field observation ative:exotic Understorey biomass Score (max 5) Vegetation Condition Score calculation ositive Vegetation Attributes Score = Native spectrallen timber/debris + Hollow-bearing trees	ies diversity for regeneral iplied by 1.29 + ((10 - Biom	Is the comparison of the compa	munity naturaber/Debri aring treesee Score (opp Coversor) n + Native I e is multiplicee Canopy etation attri	Grass-tree Total Irally treeless? s (max 5) s Score (max 5) max 8) Score (max 5) Plant Life Forms ed 1.24 Cover Score)exp2/2)	16.0 5 3 8 5
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Ion-Benchmarked Attributes Scores determined from direct field observation ative:exotic Understorey biomass Score (max 5) Vegetation Condition Score calculation ositive Vegetation Attributes Score = Native spectallen timber/debris + Hollow-bearing trees - If the community Score is Not Benchmarked (SNB) - If the community is naturally treeless this score is multiegative Vegetation Attributes Score = (15 - Weeds) - EGETATION CONDITION SCORE (Positive veg attri	ies diversity of for regeneral iplied by 1.29 + ((10 - Biom butes x ((80))	Is the comparison of the compa	munity naturaber/Debri aring treesee Score (opp Coversor) n + Native I e is multiplicee Canopy etation attri	Grass-tree Total Total	5 3 8 5 5 58.50 7.50
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con-Benchmarked Attributes Scores determined from direct field observation ative:exotic Understorey biomass Score (max 5) egetation Condition Score calculation ositive Vegetation Attributes Score = Native speciallen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) If the community is naturally treeless this score is multiple agative Vegetation Attributes Score = (15 - Weeds) EGETATION CONDITION SCORE (Positive veg attri	ies diversity of for regeneral iplied by 1.29 + ((10 - Biom butes x ((80))	Is the comparison of the compa	munity naturaber/Debri aring treesee Score (opp Coversor) n + Native I e is multiplicee Canopy etation attri	Grass-tree Total Total	5 3 8 5 5 58.50 7.50
don-Benchmarked Attributes Scores determined from direct field observation ative:exotic Understorey biomass Score (max 5) degetation Condition Score calculation ositive Vegetation Attributes Score = Native speciallen timber/debris + Hollow-bearing trees If the community Score is Not Benchmarked (SNB) of the community is naturally treeless this score is multiplegative Vegetation Attributes Score = (15 - Weeds) of the Condition Score (Positive veg attributes) Native Plant Species Diversity Weed Score Native Plant Life Forms	ies diversity of for regeneral iplied by 1.29 + ((10 - Biom butes x ((80))	Is the comparison of the compa	munity naturaber/Debri aring treesee Score (opp Coversor) n + Native I e is multiplicee Canopy etation attri	Grass-tree Total Total	5 3 8 5 5 58.50 7.50
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Potential habitat for Threatened Fauna Species (number observed or previously recorded) Number 'If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating. State Rare species observed or locally recorded (1 pt each) State Vulnerable species observed or locally recorded (2.5 pt each) Nationally Vulnerable species observed or locally recorded (10 pts each) Nationally Vulnerable species observed or locally recorded (10 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each) Nationally Endangered Species observed or locally recorded (10 pts each) Nationally Endangered Species observed or locally recorded (10 pts each) Nationally Endangered Species observed or locally recorded (10 pts each) Nationally Endangered Species observed or locally recorded (20 pts each) Nationally Endangered Species observed or locally recorded (20 pts each) Nationally Endangered Species observed or locally recorded (10 pts each) Nationally Endangered Species observed or locally recorded (20 pts each) Nationally Endangered Species observed or locally recorded (20 pts each) Nationally Endangered Species observed or locally recorded (20 pts eac				• = 0.2 pts 0
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What is the purpose of Assessment? Clearance SEB Area Other Assessment for Clearance Approximate hectares required 2.	Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE	Score 1.10 53.02 1.04	onservation Significance = NIT BIODIVERSITY SCORE otal Biodiversity Score Biodiversity Score x hectar Direction South GPS Reference Zone (52, Easting	ape Context x E 60.65 res) 16.31 of the Photo erence Datum WGS84 53 or 54) 53 (6 digits) 632389
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Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive) ent \\$5,293.	Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE Photo Point and Vegetation Survey Locate What is the purpose of Assessment? Assessment for Clearance Loss Factor	Score	Direction South GPS Refe Zone (52, Easting Northing Description Other Other	ape Context x E 60.65 res) 16.31 of the Photo erence Datum WGS84 53 or 54) 53 (6 digits) 632389 (7 digits) 6331956 on 2.14 0.35 e (mm) 331
SEB Points required 17.12 Administration fee (GST Inclusive) \$287.	Total Scores for the Site LANDSCAPE CONTEXT SCORE VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE Photo Point and Vegetation Survey Locate What is the purpose of Assessment? Assessment for Clearance Loss Factor Loadings for clearance of protected areas Reductions for rehabilitation of impact site	Score	Direction South GPS Reference Zone (52, Easting Northing Description Other Ot	ape Context x E 60.65 res) 16.31 of the Photo prence Datum WGS84 53 or 54) 53 (6 digits) 632389 (7 digits) 6331956 on 2.14 0.35 e (mm) 331 clusive) ant Nambar 36

Plant Species Recorded (Native and Int	roduced)	Listed	l Spe	cies	Na	tives only	
				Not in		Annual Herbs	Introduced
Species	Common Name	EPBC	SA	quadrat	Regen	Spring survey	Species
Acacia oswaldii	Umbrella Wattle						
Atriplex stipitata	Bitter Saltbush				Yes		
Austrostipa sp.	Spear-grass						
Enchylaena tomentosa var. tomentosa	Ruby Saltbush				Yes		
Eucalyptus brachycalyx	Gilja				Yes		
Exocarpos aphyllus	Leafless Cherry						
Geijera linearifolia	Sheep Bush				Yes		
Maireana brevifolia	Short-leaf Bluebush						
Maireana pentatropis	Erect Mallee Bluebush						
Pittosporum angustifolium	Native Apricot						
Salsola australis	Buckbush						
Sclerolaena diacantha	Grey Bindyi						
Sclerolaena uniflora	Small-spine Bindyi						
Senna artemisioides ssp. X coriacea	Broad-leaf Desert Senna				Yes		

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